

TITLE OF THE INTERNSHIP PROJECT

Software Quality Assurance & Testing on Blucheez

Submitted By

Shagor Mahmud Shakil
Id: 191-16-425
Department of Computing and Information System
Daffodil International University

Supervised By

Abdullah Bin Kasem Bhuiyan
Lecturer (DIU)
Department of Computing and Information System
Daffodil International University

Department of Computing and Information System
Faculty of Science and Technology
Daffodil International University
FALL 2022

Approval

The internship titled "Software Quality Assurance and Testing on Blucheez" submitted by Shagor Mahmud Shakil, ID No:191-16-425 to the Department of Computing and Information Systems, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computing and Information System and approval as its style and contents. The presentation has been held on 14-01-2023

BOARD OF EXAMINERS

Mr. Md Sarwar Hossain Mollah

Chairman

Associate Professor and Head

Department of Computing & Department & Depar

Faculty of Science & Information Technology

Daffodil International University

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Examiner

Lecturer

Department of Computing & Department & Depar

Faculty of Science & Information Technology

Daffodil International University

Internal



Mr. Syed Tangim Pasha Examiner

Internal

Lecturer

Department of Computing & Department & Depar

Faculty of Science & Information Technology

Daffodil International University

Dr. Saifuddin Md. Tareeq

Examiner

Professor & Dairman

Department of Computer Science and Engineering

University of Dhaka, Dhaka

External

Declaration

I hereby declare that; this project has been done by me under supervision **Abdullah Bin Kasem Bhuiyan**, Lecturer; Department of Computing and Information System. I am also declaring that this project or any part of there has never been submitted anywhere else for the award of any educational degree like, B.Sc., M.Sc., Diploma or other qualifications.

Supervised By

Abdullah Bin Kasem Bhuiyan

Lecturer

Department of CIS

Daffodil International University

Submitted By

Shagor Mahmud Shakil

Sho Kil

ID: 191-16-425

Department of CIS

Daffodil International University

Acknowledgment

First of all, I would like to express my gratitude to Almighty Allah. I would like to express my deepest respect to Lecturer **Abdullah Bin Kasem Bhuiyan** (Department of Computing and Information System) and his **Md. Sarwar Hossain Mollah** (Director of CIS, Faculty of Science & Information Technology, Daffodil International University) for their generosity and kindness. guidance. I am also grateful to him for helping me understand these issues that I did not understand. At the same time, I would like to sincerely thank Mr. Abdul Hasib, the supervisor of the organization, from Softopark It Limited. their company implements the company.

It is worth mentioning to utter the name of all respectable teachers in my department from whom I have received suggestions and advice for preparing this report and learned over the academic years.

Finally, thanks to all the scholars whose writings, valuable research, and models helped me in completing this document.

Dedication

I would like to dedicate this project to my parents, especially my father, who insisted on studying computer science. He collected all of the needed information to be eligible for admission to computer science at Daffodil International University and admitted me. So, ves because of him I came so far.

Executive Summary

In my last semester of BSc in Computing and Information System at Daffodil International University, I had to do an internship program of 6 months at a reputed software company. My internship company was Softopark It Limited.

Softopark is the leading web development, eCommerce, and digital marketing agency in Bangladesh, Established in 2015. It provides quality service with its amazing professional and skilled team to establish client business. Softopark also has professional training services to train tech and non-tech people to work better in the It industry. It always looks forward to improving the quality of its services to fulfill the commitment of uncompromised work.

During my internship period, I worked on a project as a Software Quality Assurance. The name of the project was "blucheez" for the Softopark. During the course of my internship, I had to learn how to manage projects in accordance with the software development life cycle, deliver higher-quality goods, and guarantee higher-quality services. In addition, I have developed numerous soft skills including accountability, timeliness, respect for others, accepting new challenges, etc. I have also learnt how to conduct myself appropriately in the workplace. My time at Softopark It Limited has been wonderful, and the internship program has been really beneficial for both my academic work and potential future employment.

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Chapter:1-Introduction

Nowadays, Software becomes a part of life. Every organization operates its activities and manages its employee through software. But it can be a nightmare if the software had any bugs. Your organization's confidential data can be leaked and you can face serious situations. So, to solve the problem test is very important and it is done throughout the SDLC phases. For testing purposes and to fulfill the responsibilities there is a role and its name is QA Engineer. Through the course of my internship, I have learned how to perform Software Quality Assurance and Testing. I also learned how to coordinate with team members and how to manage any project according to the software development lifecycle for ensure the quality the product and deliver a better-quality service to the user or clients. I have learned how to behave in a corporate office and also gain many loves from the company during my internship. I have worked on a test project which is bluchezz a clothing brand company, where I have done manual testing and automation testing to ensure the quality of the product.

1.1 What is Software Quality Assurance and Testing

Software quality assurance and Testing is a method or a process to assure the quality of any software and ensure that the software meets user requirements and follows the development standard procedure.

1.2 Activates of Software Quality Assurance and Testing

- As an SQA Engineer, We design the test strategy, procedures, test plan, and test scenarios.
- Make documents for the test plans and test strategy.
- Most important that we must make a document or include in the document any unusual software activities or defects.
- Need to Report for defects using a bug tracking system to the developer.
- Communicate with stakeholders and involve in the meeting.
- Verifying the test plan and procedures for any project.
- Perform functional and non-functional testing.
- Need to prepare the script for automation and Perform automation testing.
- Monitoring the software defects state and report.
- Need involvement with the user and understanding of the software problem.

1.3 Characteristics of a Good Software Quality Assurance and Test Engineer

- Real-time problem-solving skills.
- Thinking ability positively and negatively.
- · Good with communication.
- Information gathering knowledge.
- Good at written skills.
- Stay up to date with tech news.

1.4 Why Software Quality Assurance and Testing is important

Well, as I discussed earlier that nowadays it's very important to test the software otherwise you can face a huge financial loss or face a critical situation that will be not good for your organization. The cybercrime rate are increasing day by day and all types of organizations are equally in danger if you don't have a secure system. I have a statistic report of data leaked which is below-

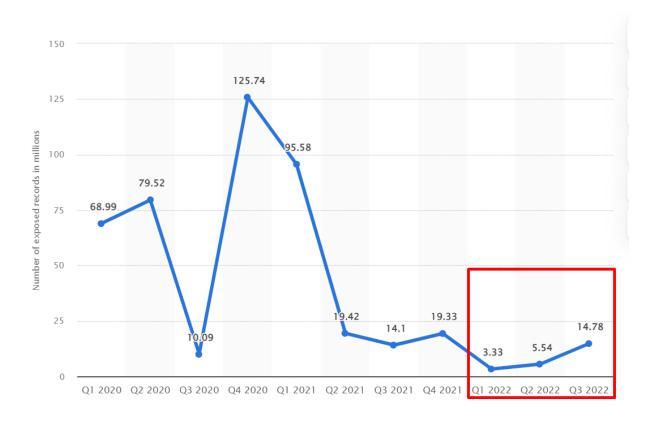


Fig 1: Data Leaked Report

Source: https://www.statista.com

1.5 Document Contents

These following chapters are followed during the documentation for the project documentation:

Chapter:1- Introduction

In the introduction chapter the introductory description of the project and the system.

Chapter 2: Initial Study

In this chapter, it contains the initial study of the proposed system as well the main goals of the system and project.

Chapter 3: Literature Review

In this chapter the problem domain, solution, evaluation and finally recommendation has been done.

Chapter 4: Methodology

The methodology chapter contains of different types of methodology, which types of methodology is perfect for this project and why.

Chapter 5: Test Planning

Test Planning chapter contains the description of that will be tests needed for the project and how we can conduct those tests.

Chapter 6: Test case design

In this chapter the case has been designed as per system module and the project requirements.

Chapter 7: Test Case Develop and Execution

This chapter contains the Test cases, and Test cases expected result and actual result and the Test Pass or Fail.

Chapter 8: Automation Testing

The Automation Testing chapter contains the details about the Web Automation and Mobile Automation.

Chapter 9: Reporting

In this chapter, it contains the report of the tests that was performed.

Chapter 10: Critical Appraisal and Evaluation

In this chapter, it contains the assessment of the initial goals that were met and not met including lesson learned.

Chapter 11: Conclusion

This Chapter contains a summary report including the objectives and success.

Chapter 2: Initial Study

2.1 Understanding the project proposal

Before starting testing, of course, we need to understand the project proposal for better understand its goals.

Introduction

Bluchezz is an e-commerce site that aimed to develop a way with help of internet-based solutions to serve the diverse consumer with the test of exotic fashion. There are many fashion brand available that are focused to develop their product to their own taste but unlike other fashion, brand bluchezz focused on customer taste, and their need and give priority to their choice. It also ensures the quality of the product and also which is comfortable for you.

Background Story

Bangladesh's apparel industry is very big and very strong. Bangladesh holds a great position in the international market, we are in the second position in terms of global export volume. We are producing most of the products of famous brands but although we are Bangladeshi the highest exporter we don't have any brand or any brand that has a presence in the international market. So, Bluchezz focus on how it will spread in the country and also grab the international market through the love of people.

Description of the proposed system

Focusing on people's need and their choice Bluchezz is making comfortable cloth for men and women. People can easily navigate to their website for purchasing any item from their collection easily with payment. They will get of popup with the discount sale and also can see most of their favorite item at the top of the websites. They can also add an item for later purchase.

2.2 Feasibility Study

Operational Feasibility

The main focus of Operational Feasibility is to fully implement the human resources that are available in the project. Its concerned about the usability of the system and all the resources are working fine. Navigating Bluchezz is easy to use and its also has proper verification and validation. The user and admin panel get easy response in minimum response time.

Technical Feasibility

Technical Feasibility considers the technical requirements of the project. Technical implementation is dependent on the organization's capability. Like if any project proposal has been done by the high technical resources allocated but when it is needed to implement then the organization can't effort such cost due to high technology resources. So, after the technical requirements were proposed than it compared the technical capability to the organization.

Economic Feasibility

Economic Feasibility is very important for any organization because every organization need to be profitable after performing all types of services. So, be profitable its need to do planning where the investment will go and the investment will get prioritized in process of the feasibility study. Projection of costs, Expenses, investment, Cash flow projection etc. get analyzed in this stage.

Market Research analysis based on feasibility factors

Bangladesh is the second largest country exporting clothing in the international market. Bangladesh is just one stop behind China which is the first largest exporter country in the clothing industry. There are more than 45000 garment factories in BD and most of them are established in Dhaka. 3.6 million workers directly work in this industry. The garment industry accounts for about 80% of all export earnings that are achieved by Bangladesh each year. Europe receives 61% of the exports that are created by the Bangladesh garment industry every year. In total, the garment and textile sector earns around \$19 billion each year in annual exports. That reflects 20% of the GDP. So, Bluchezz will create a great impact in this industry.

2.3 Foundation

Aims, Objective, and Scope

Aims of the proposed project

- Create high-quality design products.
- Giving priority to customer choice and their needs.
- Grab the local and international markets.

Objectives of the proposed document

- Understanding all requirements clearly.
- Develop a user-friendly website and mobile application.
- Enlisting all features in the website and mobile application.

Main Goals

- Deliver the unique and best design flexibly.
- Offer a diverse range of products that will meet different styles and preferences.
- We will ensure that the customer can create a wardrobe that will reflect their individuality and personal style.

High-Level Features/Requirements for this project

- Register: User can easily register with a valid email.
- Login: User will be able to login with a registered email and password.
- Logout: User will be able to get logout when they are logged in.
- View account details: User will view the account details that he created.
- Edit accounts: User will be able to edit the account information.
- Search item: User will be able to search any item.
- View item: User will be able view items.
- Add items to cart: The user will be able to add selected items.
- View shopping cart: User will be able the added product in shopping cart.
- Change items in cart: user will be able add or delete item in cart.
- Confirm to buy: User will confirm to buy.
- Delivery and payment: User will get a view for delivery details and payments.
- Place Order: user will get a view for place order.
- Cancel Order: User will be able to cancel any order item.
- Return items: User will be able to return any ordered item.
- View orders and cancel: User will be able to see a view all orders and canceled.
- Rate and reviews: User will be able to Review ordered items.

2.4 Activities for this project to achieve goals

Project Initiation

This project will create a great impact in the fashion industry. Its main goal is to create a brand that will produce high-quality, unique, and comfortable products.

Feasibility Study

A feasibility Study is very important for any project to start because its gives the initial idea that the project is stable or not. Operational, technical, and economic feasibility of the project is measured to determine whether the project is feasible enough to continue.

System Analysis

In this section, the systems requirements are explained that what is needed and whats the most important things in this system that must be included. Prioritized functional and requirements were selected from the requirement catalog.

Test case Design

After analysis the system the test case needed to be designed because its give a idea what to test and when to test

Manual Testing

The test case implementation and execution in manually are performed in this section. In manual testing all testing performed by human manually.

Automation Testing

The test script need to prepared in for the automation testing. So the test program are developed and executed in this section.

Other Project Matters

Risk management, configuration management etc.

Documentation

The documentation of the project will be recorded in this section.

Prioritizing features according to MOSCOW rules

Must have

- Registration and Login for all users.
- Search facilities.
- Shopping cart facilities.
- · Payment facilities .
- Orders and returns.

Should have

- Wishlist for user.
- Gift vouchers.
- Rating and add comments.

Could have

- Blog about upcoming update.
- Quick links.

Based on PRL the final requirements are:

- Users can select the signup or login button and type in their credentials for registration or for login respectively.
- Users can edit or view their profile when they are logged in.
- Users can Logout successfully when they are logged in.
- Customer views and selects an item that he/she wishes to purchase, must add in cart using cart button.
- Once the customer proceeds to buy from the cart page, the delivery and payment page need to be visible.
- The customer can view and manage orders that are yet to be delivered to the customer
- Each customer has the option to review purchased products and assign ratings or satisfaction levels.
- credentials for registration or for login respectively.

Iterative Development

Iterative development is a model where all the processes follow a cycle. If any step fulfills its requirements then it's going for the next steps otherwise not. The first stage or initial stage for the iterative model is planning where all the details of hardware and software requirements are included. The second stage is the analysis where all types of business logic and models are get analyzed and designed and performed. The next phase is coding where all the logic are combined and developed logic with coding. Then the testing phase comes where all types of testing are performed and then in the evaluation phase, all steps are evaluated. That's how the cycle goes on until it fulfills the requirement.

Deployment

In this phase, the recommended solution will be implemented. Bluchezz going developed by using the shopify e-commerce platform along with javascript and MySQL for database.

Conclusion

From the above discussion, we can say that the Bluchezz will be a great initiative to represent the unique choice of people. They can also serve people by producing comfortable and unique products.

Chapter 3: Literature Review

A literature review means, it's a summary of any project that are previously done. Its give you an idea about the project or any particular topic. Generally, a literature review surveys scholarly in articles and books. It gives a theoretical base for the research that determines of your research nature. A literature review creates a base for the researchers or the readers that give the full understanding of the particular field. The purpose of the literature review is that what knowledge and idea you have been established and what's the strong and weakest points of the topic.

3.1 Background of the project

There are a lot of fashion brands available in Bangladesh. Each brand focus on an individual part of the fashion industry. Some brands focus on fashion and some brands are focused on comfort and some brands are focused on fewer prices. But there are no fashion brands that focus on unique comfortable fashion products with less price. So, Bluchezz focused on that part that's main aim is to deliver a unique and comfortable product at less price.

3.2 Problem areas

The main priority is giving the user a good user experience and security, if the user has a bad experience that will create problems. Optimized Search engine if the search engine will be not optimized then the search result will not show in time. That's a problem. Missing product image and description. And there are also some business criteria problems like the inflation rate and the power shortage are the main problems for this industry. Bangladesh is the second largest exporter in the clothing industry after china. But due to these problems, the export rate is so high that the buyers lose their interest in buying from us. On the other hand, the garment owner companies claim that they are in huge losses if this situation continues they need to think if they will continue or not. In this situation. So these is the main problems.

3.3 Possible solutions

If there's a problem there's a solution. Like if a user needs a good experience then the site need to be more

- Privacy
- Security
- Trust
- User verification
- Server Availability
- Backup

Privacy

We need to ensure the privacy of user information because its plays a vital role for gain users' involvement with us. For that we will encrypt the data.

Security

Nowadays, Security plays a vital role for every organization because if any important information leaks than it will be a problem for any organization to ensure security the data access needs to be restricted by role-based.

Trust

People don't want to believe anyone nowadays because of some fraud. They don't want to believe easily any online sites. Our priority is to make it Trustworthiness as soon as possible.

User-verification

User verification must be needed for this site. Because nowadays people don't want to give their information to anyone and for this reason, they try to open a fake account which may create problems.

Server Availability

For user good experience this is play a good role because for user there will be no fixed time they can access the site any time and for that we have to be prepared.

Backup

Any problem may occur which can erase our data or pop up any critical issue that take time to be fixed, and for that we need a backup for the system.

3.3 Comparison

There are many fashion brand available like: Arong(Bangladesh), Catseye(Bangladesh)

Arong(https://www.aarong.com)

Arong is a fashion brand of Bangladesh which are established in 1978 by focusing rural fashion design. They also focused on handmade handicraft that are build by village or poor people from rural area.

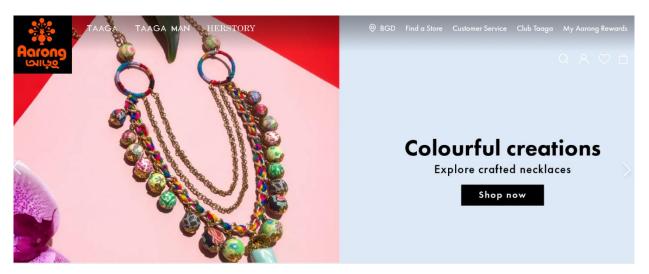


Fig no:2 aarong website

Best feature

- Clear and clean interface
- Quality picture
- Easily readable Text

Limitation

- Navigation problem
- Constantly popup promotion
- Load problem

CatsEye(https://catseye.com.bd/)

Catseye began their journey in 1980 from a small shop. Currently, they are one of the known brands in the fashion industry. They develop their own design by focusing on youth.



Fig no: 3 Catseye website

Best Features

- · Easy to understand
- Clear and clean interface
- Quality picture
- Short description of the product

Limitation

- Homepage logo is not clear
- Given priority men's fashion in the homepage
- Didn't promote women's fashion in the homepage

3.4 Recommended Approach

As we discussed above we are clear about that what we have to what not. It also clears about the functionalities. By following best features and limitations we can build a error free system for the user. We can include the best features by reviewing them which are more suitable for our system and ignore the limitation or problem areas.

So, the system should provide the below aspects:

- The system should be user friendly
- The system should have security
- The system should be tested
- Quality picture needed
- Understandable text
- Attractive and clean Design
- Simple navigation needed
- Having clear images and videos
- Solving load issue

Chapter 4: Methodology

Methodology means a systematic process and practice for successfully completing and managing the project. In software engineering, the SDLC methodology are followed by the developer. There are some methodologies and each has it own benefits and drawbacks. Here I will discuss three methodologies and among them, we will choose one for our project.

4.1 what to use

There are many software development methodologies like:

- Agile methodology
- Waterfall methodology
- DevOps
- Spiral
- Iterative
- V-model

Here I will describe three methodologies with their benefits and drawbacks for better understanding.

Agile methodology

An agile methodology is an approach which is a combination of incremental and decremental approaches. In agile methodology, the product is tested in each cycle and than improved in each iteration. The main goal of agile methodology is find out the problems in initial phase or as soon as possible. In agile methodology, it believes that if you fail early you can solve the problem before its became a major problem.

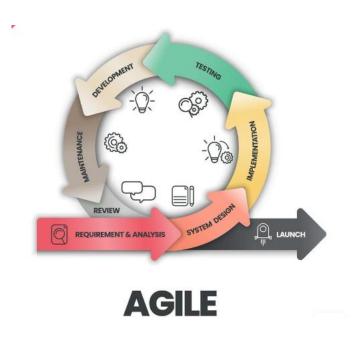


Fig no: 4 Agile model

Benefits of Agile

- In agile methodology, each of the sprint working features of the software deliver to the customer.
- The customer is satisfied because of they receive the sprint working features and for that they can have a look and fulfill their expectations.
- If the customer makes any changes then it's implemented in next phase.
- In agile methodology, the daily interaction happens between developer member and business people.
- Any changes are accepted even the later stage of development.

Drawbacks of Agile

- Because of changes can happen in last stage its difficult to predict the cost and risk.
- Sometimes the requirements are not clear enough and for that its become difficult to predict the expected result.
- In agile methodology, there are not much documentation happened.

Waterfall model:

The waterfall model was a very popular model for software developers. The Waterfall model is very important because based on this model the other models are developed. In the waterfall model, the lifecycles divided into a different set of phases. This model considered that you can move on the next phase after completing the current phase. So if you didn't complete the current stage you cant go in the next phase. In this model the output of the previous phase is considered as input for the next phases.

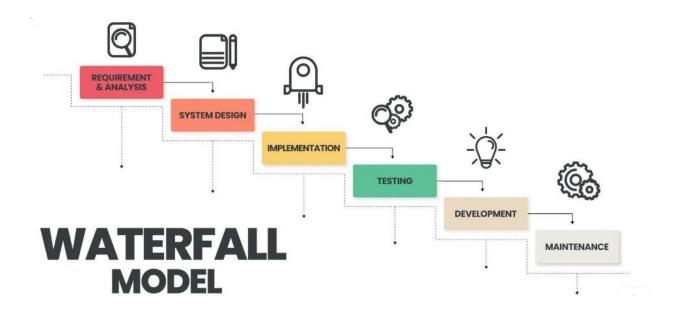


Fig no: 5 Waterfall model

Benefits of the waterfall model

- The waterfall model is very to understand
- Each stage of the model is clearly understand
- The process of the action and result are well documented
- The waterfall model works well where the requirement are clearly defined
- This model is very good for small projects

Drawbacks of the waterfall model

- The model is not suitable for big projects
- There are no opportunity to get feedback while its in a phase
- Its very difficult to make any changes after completing any phase
- There are no opportunity to overlap any phase because in the waterfall you can move on the next phase after completing the previous phase

DevOps methodology

DevOps is a software development methodology. This methodology improved the collaboration of software developer operation teams by using various types of automation tools. These automation tools are implemented in various stages that are parts of the lifecycle.

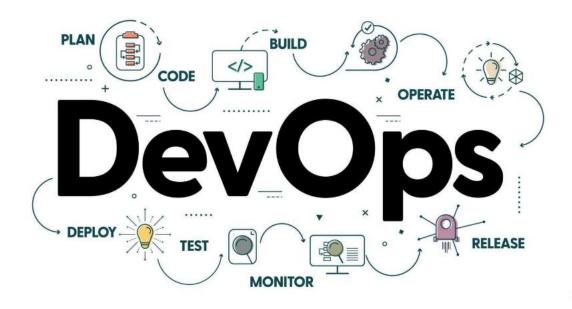


Fig no: 6 DevOps Model

Benefits of DevOps

- The DevOps methodology leads to better team engagement and productivity
- Simplifies the collaboration because all of the tools are placed in the cloud and for that, the customer can access them easily
- Its improves customer satisfaction
- Faster response to market changes to improve the growth of the business

Drawbacks of DevOps

- Its required enough DevOps knowledge because a lack of knowledge can lead to the problem in the integration of the automation projects
- The cost is high to set up an infrastructure by a DevOps environment
- Professional is not that much available for DevOps

Agile methodology vs waterfall methodology

An agile methodology is an approach which is a combination of incremental and decremental approaches. In agile methodology, the product is tested in each cycle and than improved in each iteration. The main goal of agile methodology is find out the problems in initial phase or as soon as possible. In agile methodology, it believes that if you fail early you can solve the problem before its became a major problem.

The waterfall model was a very popular model for software developers. The Waterfall model is very important because based on this model the other models are developed. In the waterfall model, the lifecycles divided into a different set of phases. This model considered that you can move on the next phase after completing the current phase. So if you didn't complete the current stage you cant go in the next phase. In this model the output of the previous phase is considered as input for the next phases.

The difference between waterfall and agile models are listed below:

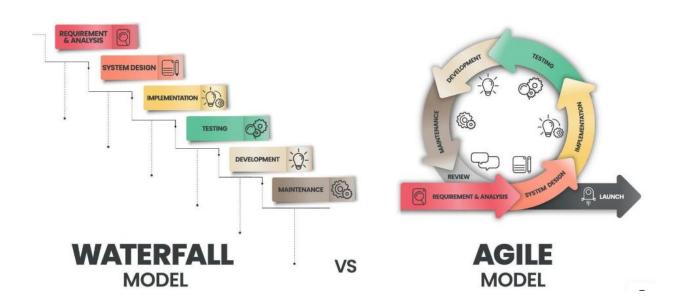


Fig no: 7 Waterfall vs Agile model

Agile vs Waterfall model

	Agile Model	Waterfall Model
Timeline	In the agile model, the timeline is flexible.	In the waterfall model, the timeline is fixed because in the waterfall model the start and finish of the project are mapped out from the start.
Client involvement	In agile methodology, the main focus is customer satisfaction. So in agile, the customer get involved in every stage.	In the waterfall model after the requirements are cleared or the goal established then the client does have not any involvement in the process.
Budget	In the model, the budget is flexible because of agile is open to any adaption from beginning to end. So the budget can be changed later on if changes are required.	In the waterfall model, the budget is almost fixed. The project gets estimated from beginning to end including the cost budget. So there are fewer changes to change the budget in this model.
Flexibility	Agile is more flexible the waterfall model. In the agile method any changes are welcome in sprint as well as the last stage of the project.	Waterfall model is not flexible as agile model because in waterfall model the each step should be completed for move on the next stage.

4.2 Choosing methodology

Because of more benefits, I have chosen the agile methodology. The main goals of the agile methodology is to satisfy the customer. An agile methodology is an approach which is a combination of incremental and decremental approaches. In agile methodology, the product is tested in each cycle and than improved in each iteration. The main goal of agile methodology is find out the problems in initial phase or as soon as possible. In agile methodology, it believes that if you fail early you can solve the problem before its became a major problem.

4.3 Why to use

For better management and successfully completing the project, every developer should follow a methodology. It helps to achieve the main goals and fulfill the customer requirement more efficiently.

Chapter 5: Test Planning

A test plan is a detailed document where all the test strategies, objectives, schedules, and resources are written to complete the particular project. As a QA tester its very important to have a test plan because it's a key of success in completing the testing. The test plan is shared with all types of roles and people who are integrated with the project. the manager, Business analyst, developer team, the QA team can look for the document.

Why are test plans important?

- The test plan provides a clear guide for the QA team for testing
- It helps individuals outside of QA team for successfully complete any project
- Easy to understand the requirements and review

Components of the test plan

Scope

In scope, the project objectives are declared. What we are going to test and what we are not going to test are defined in this phase.

- Schedule
 - In schedules for when the test will be start and when it will be finished, declared in this phase.
- Resource allocation
 - In this phase, the tester information and their role are defined.
- Environment
 - Which environment we are going to use for the test.
- Tools
 - How many tools and what are tools are we going to use in the test.
- Defect management
 - How bugs will be reported and whom.
- Risk analysis

What are risk can up when we are doing testing.

Exit

When the test should stop.

5.1 Overview of the Buechezz web application

Bluchezz is an e-commerce site that aimed to develop a way with help of internet-based solutions to serve the diverse consumer with the test of exotic fashion. There are many fashion brand available that are focused to develop their product to their own taste but unlike other fashion, brand bluchezz focused on customer taste, and their need and give priority to their choice. It also ensures the quality of the product and also which is comfortable for you.

Homepage:



Fig 8: blucheez

Domain: e-Commerce

Sub Domain: B2C (Business to Customer)

Application: Online shopping

Application type: Web application

5.2 purpose of this document

The document has a test plan which are we going to follow during the test activity. This document declares that all of the stakeholders are agree to the method, approaches and scope that will be performed from beginning to end .

5.3 Test strategy and approaches

A test strategy is an outline or a set of methods that how we are going to test the system. Its give us a clear outline that what we are going to test and what will be procedures followed during performing the test. The main purpose of the documents is that to find out what will be the strongest and weak points to test the system. The approaches of software testing –

Functional testing

Functional testing is a testing approach where the business logic are being checked. The main goal of functional testing is to ensure that is the functionalities and the result is the same as per the requirement. Important types of functional testing

- Unit Testing
 Unit testing is the first level of testing is done by the developers. The main goal of unit testing is to ensure that the particular code for the system is working or not as per the requirement
- Integration Testing
 After completing the unit testing the integration testing was performed. After integration with other modules, the test ensures that how all functionalities behaves as per requirement.
- System Testing
 This a whole system check after the completion of integration. The main golas of system testing is to ensure that how the system behaves as per requirement.
- User Acceptance Testing
 This is the last of functional testing. The main goal of user testing is to ensure that after all assessments the last piece of software is deliverable or not.

Non-Functional testing

Performance testing

Performance testing is a type of non-functional testing. In functional testing the performance of the system is get checked means how the system is behave in different situations. The main types of functional testing –

- Load testing
- o Stress testing
- Endurance testing
- o Spike testing

Security testing

Security testing is non-functional testing for verify that is the data safe is protected in the system or not.

- Integrity
- Confidentiality
- Authentication
- Authorization
- Availability
- Non-repudiation

Usability testing

Usability testing is a non-functional testing determine that how easy to use the system. In this testing the visibility of the requirement and the work follow of the process get tested.

Compatibility testing

In compatibility testing, how system will react or what will be the behavior in different environments getting checked.

5.4 Scope of test approach

In scope

List below are the main features of bluchezz

- Homepage
- Search functionalities
- Product details
- Cart page
- Checkout and payments
- My orders
- Contact us

Out of scope

Database

5.4 Test entrance and exit criteria

Entrance Criteria

- Code must be in unit tested
- Client should provide the SRS document
- · Definition of all test case and scenario are completed

Exit Criteria

- 100% test script are executed
- Test closure
- Test sign off
- All error must be fixed before sign off

5.5 Deployment of test plan

The deployment have shared in the next chapter.

5.6 Deliverables

- Test case report
- Bug summery
- Test closure

5.7 Testing process

- Testing
 - QA will execute at least 99% of test cases
 - QA will perform the II in test scope
- Reporting
 - QA will discuss with PM
- Fixing
 - The developer will fixed the assign bug and report to the PM
- Verification
 - QA will verify the bugs and report to the PM
- Closure
 - If bug fixed QA will close the bugs
- Not fixed
 - QA will reassign the bugs

5.8 Test Environments

Tools:

- Project management
- Bug reporting



Jira is based on agile methodology software that is used for multipurpose. We will use jira or our project management and report the bug.

Load testing



Apache Jmeter is open source tools is used for load testing.

API testing



Postman is Api platform for Design and test the API.

- Newman for API automating run
- Web testing



Burp suite is a web pen testing tools used to validate http request.

Web Automation



Selenium is a automation tools used for test across various web browser

Operating System

- Windows
- Kali Linux

Web Browsers

- Chrome
- Firefox

5.9 Risk and assumptions

Risk or issues

There will no further change during the sprint except any major change need but it will be acceptable if the team agree to change it otherwise not.

Assumption

- The project will deliver on time
- The project will fulfill user requirements
- Required resources available
- All documentation will be up to date and delivered QA team

5.9 Exit

If the all requirements meet then the test will be close.

Chapter 6: Test case design

A test case is a set of actions to identify efficiently that is the system or software meet the requirements or not. The main goals of the test case is to determine that the system features are performing as expected. If we get the as expected result from testing than we mark as pass otherwise we mark it as fail.

6.1 Components of test case

The test case is very very important because its defines what must be tested in to the system. It is very helpful for developers to identify the problem and they can be fixed quickly than before.

Test Case ID/Name

We can assign a numeric number for test case id and give the logical name to the test case to understand what particular functionalities we are testing.

Test Case Description

In the test case description, we wrote how many ways we are going to test to the particular feature.

Precondition Test Data

In the precondition data if any credentials are needed to perform the test we wrote here.

Step Description

Its very important for developers because what was the steps during the test perform written in the test description.

Expected Result

In this section what should be the system output as user requirement are wrote here.

Actual Result

Whats the actual result after performing the test are written here

Status

After comparing the Expected result and Actual Result we declare that is it meet the user requirement or not as PASS and FAILL.

Remarks

In remarks, we use the reference link or picture if the requirement don't match as userdefined.

Comments

In Comments, we attach any a short description how the developer can fix the problem easily which problem should fixed as soon as possible.

6.2 Designing Test Case for Functional Testing

6.2.1 Unit testing

Test module name: Registration

Product Name	https://blucheez.com.bd/	TC Start Date	10/10/2022	TC Execution Start Date	
Module Name	UserRegistration	TC End Date	15/10/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID/Name	Test Case Description	Precondition	Test Data	Step Description	Expected Result
TC 001: Register	Verify keeping all field empty	installed		1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser
		2. Enter Valid URL		2. Click Register link	2. Link should work properly
				Keep all field empty	3. Field can be selected
				4. Click on ""Create Account"" button"	Button should work with a popup error message
TC 002: Register	Valid name field check	Browser should be		1. Go to URL, https://blucheez.com.bd/	1. URL should be open
TC 002. Register	valid frame field check	installed 2. Enter Valid URL		1. Go to OKE, https://blucheez.com.bd/	URL should be open successfully in browser
				2. Click Register link	2. Link should work properly
				3. Enter valid name	3. Field can be selected
				4. Fill up others field with valid info	4. Field can be selected
				5. Click on ""Create Account"" button"	5. Button should work succesfully
	Check name field without entering any name"	Browser should be installed Enter Valid URL		Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser
				2. Click Register link	2. Link should work properly
				3. Keep name field empty	3. Field can be selected
				4. Fill up others field with valid info	4. Field can be selected
				5. Click on ""Create Account"" button"	5. Button should work with a popup
TC 004: Register	Invalid name field check with only number	Browser should be installed Enter Valid URL		1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser
				2. Click Register link	Link should work properly
				3. Enter invalid name using number	3. Field can be selected
				4. Fill up others field with valid info	4. Field can be selected
				5. Click on ""Create Account"" button"	5. Button should work with a popup
TC 005: Register		Browser should be installed Enter Valid URL		1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser
	onaraotor	2. Entor valid One		2. Click Register	2. Link should work properly
				3. Enter invalid name using special	3. Field can be selected
				4. Fill up others field with valid info	4. Field can be selected
				5. Click on ""Create Account"" button"	5. Button should work with a popup error message
TC: 006 Register	Invalid name field check with html and php tag.	Browser should be installed Enter Valid URL		1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser

			2. Click Register	2. Link should work properly
			Enter invalid name with html or php tag	3. Field can be selected
			4. Fill up others field with valid info	4. Field can be selected
			5. Click on ""Create Account" button"	Button should work with a popuperror message
TC 007: Register Valid e	Valid email field check	Browser should be installed Enter Valid URL	Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser
			Click Register	2. Link should work properly
			Enter valid email address.	3. Field can be selected
			Fill up others field with valid info.	4. Field can be selected
			5. Click on ""Create Account"" button."	5. Button should work Sucessfully
TC 008: Register	Invalid email address check without '@'	Browser should be installed Enter Valid URL	1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser
			2. Click Register	2. Link should work properly
			3. Enter email address without ""@"".	3. Field can be selected
			4. Fill up others field with valid info.	4. Field can be selected
			5. Click on ""Create Account"" button."	5. Button should work with a popup error message
TC 009: Register	Invalid email address	Browser should be	1. Go to URL, https://blucheez.com.bd/	1. URL should be open
TO 009. Register	check without '.com'	installed 2. Enter Valid URL	1. So to one, https://bidcheez.com.bd/	URL should be open successfully in browser
			2. Click Register	2. Link should work properly

				Enter email address without "".com"".	3. Field can be selected
				4. Fill up others field with valid info.	4. Field can be selected
				5. Click on ""Create Account"" button.	
Tc 010: Register	Invalid email address check	heck 1. Browser should be installed 2. Enter Valid URL		1. Go to URL https://blucheez.com.bd/	1. URL should be open successfully in browser
				2. Click Register	2. Link should work properly
				3. Enter an invalid email address.	3. Field can be selected
				4. Fill up others field with valid info.	4. Field can be selected
				5. Click on ""Create Account"" button.	5. Button should work with a popup error message
TC 011: Register	Verify Password field with valid Password	Browser should be installed Enter Valid URL		1. Go to URL https://blucheez.com.bd/	successfully in browser
				Click Register	2. Link should work properly
				Enter valid Password.	3. Field can be selected
				Fill up others field with valid info.	4. Field can be selected
				5. Click on ""Create Account"" button.	5. Button should work Sucessfully
TC 012: Register	Verify Password field	Browser should		1. Go to URL	.1. URL should be open
TO 012. Register	,	be installed 2. Enter Valid URL		https://blucheez.com.bd/	successfully in browser
				2. Click Register	2. Link should work properly
				3. Enter Password of less	3. Field can be selected
				than 8 charcter.	
				4. Fill up others field with valid info.	4. Field can be selected
				5. Click on ""Create Account"" button.	 Button should work with a popup error message
TC 012: Register	Invalid email address checkVerify Password field without entering any letter	Browser should be installed Enter Valid URL		1. Go to URL https://blucheez.com.bd/	URL should be open successfully in browser
	,			2. Click Register	2. Link should work properly
				3. Enter Password of less	3. Field can be selected
				than 8 charcter.	
				4. Fill up others field with valid info.	4. Field can be selected
				5. Click on ""Create Account"" button.	5. Button should work with a popup error message
TC 013: Register	. ,	Browser should			
	,	be installed			1. URL should be open
	symbol	2. Enter Valid URL		https://blucheez.com.bd/	successfully in browser
				2. Click Register	2. Link should work properly
				3. Enter Password without any number or symbol.	3. Field can be selected
				Fill up others field with valid info.	4. Field can be selected
				Click on ""Create Account"" button.	
				o. Onok on Oreate Account Button.	successfully
TC 014: Register	Verify OTP	Browser should		1. Go to URL	.1. URL should be open
_		be installed 2. Enter Valid URL		https://blucheez.com.bd/	successfully in browser
				2. Click Register	2. Link should work properly
				3. Fill up all field with valid info.	3. Field can be selected
				4. Click on ""Create Account"" button	
				5. Enter OTP code."	5. OTP should passed
TC 015: Register	Verify to get registered with the same email address previously used for the registration.	be installed		1. Go to URL https://blucheez.com.bd/	1. URL should be open successfully in browser
				2. Click Register	2. Link should work properly
				3. Enter same email address	Field can be selected
				previously used for the registration.	
				4. Fill up others field with valid info.	4. Field can be selected
				5. Click on ""Create Account"" button.	
					popup error message
Ĺ					

Test Module: Search Functionalities

Product Name	https://blucheez.com.bd/	TC Start Date	16/10/2022	TC Execution Start Date	
Module Name	Search	TC End Date	18/10/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID	Test Case Description	Pre-Condition	Test Data	Step Description	Expected Result
	Verify that search field				
TC001:	accepts	Should set up a browser.	Search products	1. Open browser	Browser should be opened
Search	alphabets, numbers or	Internet access should be available.			
	symbols.	The user must be signed in.		2. Go to URL,	Ecommerce website
				https://blucheez.com.bd/	should be opened
				Type user name and password.	user should be able to input username and password
				Select the "Login" button.	Home page should be displayed after login
				5. Click on search field.	Search field should accepts alphabets, numbers or symbols.
TC002:	Make sure the search should be carried out after you enter your search terms and click	Should set up a browser.	Search products	1. Open browser	Browser should be opened
Search	the search icon.	Internet access should be available.			
		The user must be signed in.		2. Go to URL,	Ecommerce website
				https://blucheez.com.bd/	should be opened
				3. Type user name and	
				password.	user should be able to input username and password
				4. Select the "Login" button.	Home page should be displayed after login and user name should be
				5. Click on search field.	displayed on home page
				6. Enter the Search text	Search should be
					performed according to search text provided by
TC003: Search	Verify that the search results should be as per the search	Should set up a browser. Internet access should be available.	Search products	1. Open browser	user. Browser should be opened
	query.	The user must be signed in.		2. Go to URL,	Ecommerce website
		1		https://blucheez.com.bd/	should be opened
				3. Type user name and	
				password.	user should be able to
					input username and
					password
				4. Select the "Login" button.	Home page should be
					displayed after login and
					user name should be
				5. Click on search field.	displayed on home page
				6. Enter the Search text	Search should be
	1		ĺ		performed according to

				search text provided by user.
	01 11 4			
Make sure the user can search using the product name, brand name, or		Search products	1. Open browser	Browser should be opened
	The user must be signed in.		2. Go to URL, https://blucheez.com.bd/	Ecommerce website should be opened
			3. Type user name and password.	user must be allowed to enter their login and password
			4. Select the "Login" button.	User should be logged in and Search functionality is present on home page.
			Click on search field. Enter the Search text or brand name	The user should have the ability to do searches based on product and brand names.or a product description.
	·	Search products	Open browser	Browser should be opened
			2. Go to URL,	Ecommerce website should be opened
Reviews or Ratings.			https://blucheez.com.bd/	
			Type user name and password.	user must be allowed to enter their login and password
	search using the product name, brand name, or specification. Make sure that filter should be present for filtering the search results bases on Brand, Price,	search using the product name, brand name, or specification. Internet access should be available. The user must be signed in. Make sure that filter should be present for filtering the search results bases on Brand, Price, The user must be signed in.	Make sure the user can search using the product name, brand name, or specification. Internet access should be available. The user must be signed in. Make sure that filter should be present for filtering the search results bases on Brand, Price, The user must be signed in. Search products Internet access should be available. The user must be signed in.	Make sure the user can search using the product name, brand name, or specification. Internet access should be available. The user must be signed in. Internet access should be available. The user must be signed in. Internet access should be available. The user must be signed in. Internet access should be available. The user name and password. Internet access should be available. The user name and password. Make sure that filter should be present for filtering the search results bases on Brand, Price, The user must be signed in. Search products 1. Open browser 2. Go to URL, https://blucheez.com.bd/ 3. Type user name and

				4. Select the "Login" button.	User should be logged in and home page should be
				5 Enter the Search text or brand	same on different browsers.
				name	Search should be
					performed according to search text provided by user and filters should be present.
TC006: Search	Verify that sorting options should be present on search	Should set up a browser. Internet access should be available.	Search products	1. Open browser	Browser should be opened
ocaron	results page.	The user must be signed in.		2. Go to URL,	Ecommerce website
					should be opened
				https://blucheez.com.bd/	user must be allowed to
				Type user name and password.	enter their login and password
				4. Select The" Login" Button	User should be logged in
					and alignment of products on home page should be proper.
				5 Enter the Search text or brand	
				name	Search needed to be
					performed to search text provided by user and sorting options should be present on search results page.
TC007:	Make sure that the number of search results displayed on one	Should set up a browser. Internet access should be available.	Search products	Open browser	Browser should be opened
Geardi	page.	The user must be signed in.		2. Go to URL,	Ecommerce website should be opened
		Should set up a browser.		https://blucheez.com.bd/	user must be allowed to
				Type user name and password.	enter their login and password
				4. Select The" Login" Button	After logging in, the home page should be displayed, along with the user's name.
				5 Enter the Search text or brand	
				name	Search needed to be
					performed to search text provided by user and sorting options
					should be present on

TC008: Search	Verify that there should be navigation button(Next and Previous) for navigation to pages.	Should set up a browser. Internet access should be available. The user must be signed in. Should set up a browser.	Search products	1. Open browser 2. Go to URL, https://blucheez.com.bd/ 3. Type user name and password.	search results page. Browser should be opened Ecommerce website should be opened user must be allowed to enter their login and password
				Enter the Search text or brand name Select Product page and navigate back	Home page should be displayed after login and user name should be displayed on home page Search should be performed according to text provided by user and navigation button should be present on search result page.
TC009: Search	Make sure that user should be perform search in different categories for example, Punjabi, Shirts etc.	Should set up a browser. Internet access should be available. The user must be signed in. Should set up a browser.	Search products	1. Open the browser 2. Go to URL, https://blucheez.com.bd/ 3. Type user name and password. 4. Select The" Login" Button 5 Enter the Search text or brand name and select catagories	Browser needed to be opene Ecommerce website should be opened user must be allowed to enter their login and password Home page should be displayed after login and user name should be visiable on home page Search should be performed in different categories such as movies, books, grocery etc.

6.2.2 Integration Testing

Test Module: Login

Product Name	https://blucheez.com.bd/	TC Start Date	18/10/2022	TC Execution Start Date	
Module Name	Login	TC End Date	20/10/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID/Name	Test Case Description	Precondition		Test Data	Step Description	Expected Result
TC001: Login	valid email/username field check	User should registered in system.	be the		1. Go to URL, https://blucheez.com.bd /	URL should navigate to the required website
					Click "Sign in" link Enter valid username/email	Sign Link should work Field can be selected Button should work
TC002: Login	Empty email/username field check	User should registered in system.	be the		Click on "Continue" button Go to URL, https://blucheez.com.bd /	URL should navigate to the required website
					Click "Sign in" link Keep empty the field Click on "Continue" button	Sign Link should work Field can be selected Button should work with popup error message
TC003: Login	Check login functionality with invalid email id	User should registered in system.	be the		Go to URL, https://blucheez.com.bd /	URL should navigate to the required website
					Click "Sign in" link enter invalid username/email Click on "Continue" button	Sign Link should work Field can be selected Button should work with popup error message
TC004: Login	valid password field check	User should registered in system.	be the		1. Go to URL, https://blucheez.com.bd	URL should navigate to the required website
					Click "Sign in" link Enter valid username/email Click on "Continue" button	Sign Link should work Field can be selected Button should work with popup error message
					Enter valid password Click on "Sign in" button	Field can be selected Button should work
TC005: Login	Empty password field check	User should registered in system.	be the		1. Go to URL, https://blucheez.com.bd /	URL should navigate to the required website
					Click "Sign in" link Enter valid username/email Click on "Continue" button	Sign Link should work Field can be selected Button should work with popup
					Keep password field empty Click on "Sign in" button	error message Field can be selected Button should work with popup
TC006: Login	Check login functionality with invalid password	User should registered in system.	be the		1. Go to URL, https://blucheez.com.bd	error message URL should navigate to the required website
					2. Click "Sign in" link 3. Enter valid username/email 4. Click on "Continue" button	Sign Link should work Field can be selected Button should work with popup error message
					Keep password field empty Click on "Sign in" button	Field can be selected Button should work with popup error message

Test Module: Product Details

Product Name	https://blucheez.com.bd/	TC Start Date	21/10/2022	TC Execution Start Date	
Module Name	Product Details	TC End Date	23/10/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID	Test Case	Pre-Condition	Test Data	Test Step	Expected Result
TC001:	Verify that	Should set up a browser		Open browser	Browser should be opened
Product Details	images of product are	Internet access should be available		Go to URL, https://blucheez.com.bd/	webpage must be opened
	displayed correctly.			Type username and password in	user must be allowed to enter their ogin and password
					After logging in, the home page should be displayed
					the images of product should be
				page.	displayed correctly.
TC002:	Verify that price	Should set up a browser		Open browser	Browser should be opened
Product Details	of product is displayed.	Internet access should be available The user must be signed in		Go to URL, https://blucheez.com.bd/	webpage must be opened
				type username and password in	user must be allowed to enter their ogin and password
					After logging in, the home page should be displayed along with the user's name
					the images of product should be displayed correctly.
TC003:	Verify that	Should set up a browser		Open browser	The price of product should be
Product	product reviews	Internet access should be available			displayed.
Details	are mentioned.	The user must be signed in			
		Ç		Go to URL, https://blucheez.com.bd/	webpage must be opened
				type username and password in	user must be allowed to enter their ogin and password

			log in by clicking the login button	After logging in, the home page should be displayed, along with the user's name
			Click on a product displayed on home page.	The reviews about the product should be displayed.
TC004:	Verify that	Should set up a browser	Open browser	Browser should be opened
Product Details	product specifications are displayed.	Internet access should be available The user must be signed in	Go to URL, https://blucheez.com.bd/	webpage must be opened
			type username and password in	user must be allowed to enter their login and password
			log in by clicking the login button	User should be logged in and Search functionality is present on home page.
			Click on a product displayed on home page.	Product specifications should be displayed.
TC005:	Verify that	Should set up a browser	Open browser	Browser should be opened
Product	information	Internet access should be available	Go to URL, https://blucheez.com.bd/	webpage must be opened
Details	about IN- Stock/Out- Stock	The user must be signed in	. ,	

	are displayed.			type username and password in	user must be allowed to enter their ogin and password
				log in by clicking the login button	After logging in, the same page should be displayed
				Click on a product displayed on home page.	Stock information should be displayed.
TC006:	Verify that	Should set up a browser		Open browser	Browser should be opened
Product Details	seller ratings should be displayed.	Internet access should be available The user must be signed in		Go to URL, https://blucheez.com.bd/	webpage must be opened
				type username and password in	user must be allowed to enter their login and password
				log in by clicking the login button	User should be logged in and alignment of products on home page should be proper.
				Click on a product displayed on home page.	The seller ratings should be displayed.
TC007:	Verify that all	Should set up a browser		Open browser	Browser should be opened
Product Details		Internet access should be available The user must be signed in		Go to URL, https://blucheez.com.bd/	webpage must be opened
				type username and password in	user must be allowed to enter their login and password
				log in by clicking the login button	Home page should be displayed after login and user name should be displayed on home page
				Click on any product displayed on home page	User should be redirected to product specification page.
1	1	1	l		

			Click on a product displayed on hom page.	e All the variations of product should be displayed.
TC008:	Verify that	Should set up a browser	Open browser	Browser should be opened
Product Details	shipping information	Internet access should be available The user must be signed in	Go to URL, https://blucheez.com.bd/	webpage must be opened
Details	about product	The user must be signed in		
	are displayed.		type username and password in	user must be allowed to enter their login and password
			log in by clicking the login button	After logging in, the home page should be displayed, along with the user's name

_	_			
			Click on any product displayed on home	User should be redirected to product
			page	specification page.
			Click on a product displayed on home page.	the images of product should be
				displayed correctly.
				displayed correctly.
TC009:	Verify that	Should set up a browser	Open browser	The shipping information should be
Product		Internet access should be available		displayed.
	[. ,
Details	l •	The user must be signed in	Go to URL, https://blucheez.com.bd/	webpage must be opened
	mentioned on			
	product page.			
				user must be allowed to enter their
			i i	login
				and password
				After I - min s in the learner and
				After logging in, the home page
				should be displayed,
				along with the user's name
			Click on user name displayed on home	User profile should be displayed.
			page.	
			p	
			Click on a product displayed on home page.	The payment options should be
				displayed.
				uispiayeu.
TC0010:	Verify that	Should set up a browser	Open browser	Browser should be opened
Product	product	Internet access should be available	Go to URL, https://blucheez.com.bd/	webpage must be opened
Details	suggestions	The user must be signed in		
	related to			
				user must be allowed to enter their
	product should		type username and password in	login
	be displayed.			and password
	. ,			·
			log in by clicking the login button	After logging in, the home page
				should be displayed,
				along with the user's name and
				product should be catagorised
			Click on a product displayed on home	
			page.	The product suggestions should be
				displayed.
	1			

6.2.3 System Testing

Test Modules:

• Cart Page

• Checkout and Payments

• My Order

Module Name: Cart Page

Product Name	https://blucheez.com.bd/	TC Start Date	24/10/2022	TC Execution Start Date	
Module Name	Cart	TC End Date	25/10/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID	Test Case	Pre-Condition	Test Data	Test Step	Expected Result
TC001: Cart	Verify that when	Should setup a browser		1. Open browser	Browser should be opened
	user clicks on	Internet connection should be		2.Open url	Bluchezz website should be
		Available			
	add to cart, the				opened
	product should			Type username and password in	user must be allowed to enter their
	be added to				Login and password
	cart.			4. log in by clicking the login button	User should be logged in
					After logging the home page should be displayed
				5. Click on any product displayed on home	The product page should be
				page	displayed.
				6. Click on add to cart for the product.	The product should be added to
					cart.
TC002: Cart	Verify that user	Should setup a browser		1. Open browser	Browser should be opened
	should be able	Internet connection should be avilable		2.Open url	Bluchezz website should be
		The User must be signed in			
	to continue				opened
	shopping after			Type username and password in	user must be allowed to enter their
	adding items to				Login and password
	cart.			4. log in by clicking the login button	User should be logged in
					After logging the home page should be displayed
				Click on any product displayed on home	The product page should be
				page	displayed.
				Click on add to cart for the product.	The product should be added to
					cart and user can continue

				shopping.
C003: Cart	Verify that item	Should set up a browser	Open browser	Browser should be opened
	quantity should be increased if	Internet access should be available	2. Open url	Bluchezz website should be opened
	user adds same item in cart	The user must be signed in	Type username and password in	user must be allowed to enter the
	again.		4. log in by clicking the login button	User should be logged in After logging the home page should be displayed
			5. Click on any product displayed on home page	The product page should be displayed.
			6. Click on add to cart for the product.	The product should be added to cart.
			7. Click on add to cart again for the same product.	The item quantity should be increases.
C004: Cart	Verify that total	Should set up a browser	1. Open browser	Browser should be opened
	amount of all items should be	Internet access should be available	2.Open url	Bluchezz website should be opened
	displayed to The user must be signed in user.	Type username and password in	user should be able to input username and password	
		4. log in by clicking the login button	User should be logged in After logging the home page should be displayed	
			5.Click on any product displayed on home	The product page should be
			page	displayed.
			6.Click on add to cart for the product.	The product should be added to cart.
			7.Click on go to cart button.	The total amount of all items in cart should be displayed.
C005: Cart	Verity that the	Should set up a browser	Open browser	Browser should be opened
	amount displayed to	Internet access should be available	2.Open url	Bluchezz website should be opened
	user should include the	The user must be signed in	3. Type username and password in	user must be allowed to enter thei
	taxes and shipping charges as per location.		4. log in by clicking the login button	User should be logged in After logging the home page should be displayed
			5.Click on any product displayed on home page	The product page should be displayed.
			6.Click on add to cart for the product.	The product should be added to cart.

[1	1	7.Click on go to cart button.	The total amount should include
				taxes and shipping charges.
				I am a am a am a am a a a a a a a a a a
TC006: Cart	Verify that user	Should set up a browser	1. Open browser	Browser should be opened
		· ·	•	·
		Internet access should be	2. Open url	Bluchezz website should be
	able to add	available		opened
	items in cart	The user must be signed in	Type username and password in	user must be allowed to enter their
	beyond a certain			Login and password
	limit.		4. log in by clicking the login button	User should be logged in
				After logging the home page
				should be displayed
			5. Click on any product displayed on home	The product page should be
			page	displayed.
			6. Click on add to cart for the product for	The user should not be allowed
			many times.	to add items to cart beyond a
				certain limit.
TC007: Cart	Verify that when	Should set up a browser	1. Open browser	Browser should be opened
		Internet access should be	2. Open url	Bluchezz website should be
		available	2. Open un	opened
			2. Time was read and account in	
	cart button the	The user must be signed in	Type username and password in	user must be allowed to enter their
	item should be			Login and password
	removed from		4. log in by clicking the login button	User should be logged in
	cart.			After logging the home page
				should be displayed
			5. Click on any product displayed on home	User should be redirected to
			page	product specification page.
			6. Click on any product displayed on home	The product page should be
			page	displayed.
			7.Click on add to cart for the product.	The product should be added to
				cart.
			Click on remove from cart button.	The item should be removed
				form cart.
TC008: Cart	Verify that user	Should set up a browser	1. Open browser	Browser should be opened
	should be able	Internet access should be	•	Bluchezz website should be
			2. Open url	
	,	available		opened
	coupons or	The user must be signed in	Type username and password in	user must be allowed to enter their
	vouchers at			Login and password
	checkout from		4. log in by clicking the login button	User should be logged in
	cart.			After logging the home page
				should be displayed
	1		1	
			5. Click on any product displayed on home	User should be redirected to
			Click on any product displayed on home page	User should be redirected to product specification page.

1			page	displayed.
			7. Click on add to cart for the product.	The product should be added to cart.
			8. Click on go to cart button.	User should be able to apply cupons or vouchers.
TC009: Cart	Verify that items	Should set up a browser	1. Open browser	Browser should be opened
		Internet access should be available	2. Open url	Bluchezz website should be opened
	logs out and logs in again.	The user must be signed in	Type username and password in	user must be allowed to enter their Login and password
			4. log in by clicking the login button	User should be logged in After logging the home page should be displayed
			Click on user name displayed on home page.	User profile will be displayed.
			Click on any product displayed on home page	The product page should be displayed.
			7. Click on add to cart for the product.	The product should be added to cart.
			8. Click on Logut button	User is logged out.

9. Login again with same user id

Item should be present as before

password

Module Name: Checkout and Payments

Product Name	https://blucheez.com.bd/	TC Start Date	25/10/2022	TC Execution Start Date	
Module Name	Checkout and Payments	TC End Date	26/10/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID	Test Case	Pre-condition	Test Data	Test Step	Expected Result
TC001: Check out and payments	payments options	Browser must be launched webpage must be opened		Browser must be launched	Browser should be opened
	order should be	The user need to log in		2. webpage must be opened	website should be opened
	displayed at checkout.			Type username and password in	user must be allowed to enter their login and password
				4. log in by clicking the login button	User should be logged in ,page should be
				5. Click on any product displayed on home page	The product page should be displayed.
				6. Click on add to cart for the product.	The product should be added to cart.

			7.Click button.	on Checkout	The checkout page should be displayed with payments options.
TC002: Check out and payments	Verify that delivery details of items	details of items webpage must be opened		/ser must be launched	Browser should be opened
	should be displayed at	The user need to log in	2. webp	page must be opened	website should be opened
	checkout.		3. Type passwo	e username and ord in	user must be allowed to enter their login and password
			4. log ii button	, ,	User should be logged in ,page should be displayed,
				k on any product red on home page	The product page should be displayed.
			6. Click the pro-	on add to cart for duct.	The product should be added to cart.
			7.Click button.	on Checkout	The checkout page should be displayed with delivery details.
TC003: Check out and payments		Verify that user Browser must be launched should get order webpage must be opened	1. Brow	ser must be launched	Browser should be opened
		The user need to log in	2. webp	age must be opened	website should be opened
			3. Type passwo	e username and ord in	user must be allowed to enter their login and password
			4. log ii button		User should be logged in ,page should be displayed,
				k on any product red on home page	The product page should be displayed.
			6. Click the pro-	on add to cart for duct.	The product should be added to cart.
			7. Click button.	on Checkout	The checkout page should be displayed with payments options.
			8. Mak order.	ce payment for the	User should get order details by message or email.
TC004: Check out and payments	Verify that user should be directed	Browser must be launched webpage must be opened	1. Brow	ser must be launched	Browser should be opened
	to home page after	The user need to log in		page must be opened	website should be opened
	Ţ	Į	1		

	checkout.			Enter username and password	user must be allowed to enter their login and password
				4. Click on login button	User should be logged in ,page should be displayed,
				5. Click on any product displayed on home page	The product page should be displayed.
				6. Click on add to cart for the product.	The product should be added to cart.
				7. Click on Checkout button.	The checkout page should be displayed with payments options.
				8. Make payment for the order.	Ther order should be confirmed and user should be directed to home page.
TC005: Check out and payments	Verify that user should be	Browser must be launched webpage must be opened		Browser must be launched	Browser should be opened
	displayed payment options such as Credit	The user need to log in		2. webpage must be opened	website should be opened
	Card, Debit Card, Net Banking etc.			Type username and password in	user must be allowed to enter their login and password
				log in by clicking the logir button	User should be logged in ,page should be displayed,
				5. Click on any product displayed on home page	The product page should be displayed.
				6. Click on add to cart for the product.	The product should be added to cart.
				7. Click on Checkout button.	The checkout page should be displayed with payments options such as debit card, credit card, netbanking etc.
TC006: Check out and payments		Browser must be launched webpage must be opened		Browser must be launched	Browser should be opened
	payment should be done as Guest	The user need to log in		webpage must be opened	website should be opened
	user.			Click on any product displayed on home page	user must be allowed to enter their login
				4. Click on add to cart for the product.	User should be logged in ,page should be
				5. Click on Checkout button.	The checkout page should be displayed with payments options.
				6. Make payment for the order.	The payment should be done as guest user.
TC007: Check out and payments	should be provided	Browser must be launched webpage must be opened		1.Browser must be opened	Browser should be opened
	with an option to save the payment method.	n an option to The user need to log in re the payment		Webpage must be opened	Ecommerce website should be opened
	ouiod.			Type username and password in	user must be allowed to enter their login

			4. log in by clicking button	User should be logged in ,page should be displayed,
			Click on any product displayed on home page	User should be redirected to product specification page.
			Click on any product displayed on home page	The product page should be displayed.
			7. Click on add to cart for the product.	The product should be added to cart.
			8. Click on Checkout button.	The checkout page should be displayed with payments options.
			Make payment for the order.	the user should be able to save payment method for future orders.
TC008: Check out and payments	should be timed out	Browser must be launched webpage must be opened	Browser must be launched	Browser should be opened
	done for a certain time.	The user need to log in	2. webpage must be opened	website should be opened
	une.		Type username and password in	user must be allowed to enter their login and password
			log in by clicking the login button	User should be logged in ,page should be displayed,
			5. Click on any product displayed on home page	User should be redirected to product specification page.
			Click on any product displayed on home page	The product page should be displayed.
			7. Click on add to cart for the product.	The product should be added to cart.
			8. Click on Checkout button.	The checkout page should be displayed with payments options.
			Select payment method and click on pay.	Payment page should be displayed.
			10. Stay on payment page for long time wtihout any activity.	The payment session should be timedout.
TC009: Check out and payments	details should be	Browser must be launched webpage must be opened	Browser must be launched	Browser should be opened
	displayed on payment page for registered	The user need to log in	2. webpage must be opened	website should be opened
	customers.		Type username and password in	user must be allowed to enter their login and password
			log in by clicking the login button	User should be logged in ,page should be displayed,
			5. Click on user name displayed on home page.	User profile should be displayed.
			6. Click on any product displayed on home page	The product page should be displayed.
			7. Click on add to cart for the product.	The product should be added to cart.

			8. Click on Checkout button.	The checkout page should be displayed with user details.
TC0010: Check out and payments	Verify that on successful	Browser must be launched webpage must be opened	1. Browser must be launched	Browser should be opened
and paymonto		The user need to log in	webpage must be opened	website should be opened
	to customer along with unique order number.	Type username and password in	user must be allowed to enter their login and password	
				User should be logged in ,page should be displayed,
			5. Click on any product displayed on home page	The product page should be displayed.
			6. Click on add to cart for the product.	The product should be added to cart.
			7. Click on Checkout button.	The checkout page should be displayed with payments options.
				Order should be confirmed and email or text message should be delivered to customer.

Test Module: My order

Product Name	https://blucheez.com.bd/	TC Start Date	01/11/2022	TC Execution Start Date	
Module Name	My Order	TC End Date	01/11/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID	Test Case	Pre-Condition	Test Data	Test Step	Expected Result
TC001: My	Check that user should	Browser must be launched		1. Browser need to be	Browser should be opened
Orders	be able to track the	webpage must be opened		2. webpage need be opened	website should be opened
	order on My orders page.			Type username and password in	user must be allowed to enter their login
				4. log in by clicking the logir button	User should be logged in After logging in, the home page
				5. Select the "My orders" link	The orders by user should be displayed.
				6. To track an order, click on it	Tracking information should be displayed for that order.
TC002: My	Check that user should	Browser must be launched		1. Browser need to be	Browser should be opened
Orders		webpage must be opened		2. webpage need be opened	website should be opened
	delivery date and time.	The user need to log in		Type username and password in	user should be able to input username and password
				4. log in by clicking the logir button	Home page should be displayed after login and user name should be displayed on home page
				5. Select My orders button	The orders by user should be displayed.
				6. change delivery date and time by clicking the button.	The user should be provided details for selecting delivery date and time.
TC003: My		Browser must be launched		1. Browser need to be	Browser should be opened
Orders	be able to cancel the	webpage must be opened		2. webpage need be opened	website should be opened
	order	The user need to log in		Type username and password in	user must be allowed to enter their login
				4. log in by clicking the logir button	User should be logged in After logging in, the home page should be displayed,
				5. Select My orders button	The orders by user should be displayed.
				6. Cancel the order by deleting	User should be able to cancel the order.
TC004: My	Check that user should	Browser must be launched		1. Browser need to be	Browser should be opened
Orders	be able to return the	webpage must be opened		2. webpage need be opened	website should be opened
	order after delivery of order.	The user need to log in		Type username and password in	user must be allowed to enter their login
				4. log in by clicking the logir button	User should be logged in After logging in, the home page should be displayed,
				5. Select My orders button	The orders by user should be displayed.
				6. return item for an order.	User should be provided with pickup date and time for return.
TC005: My	Check that user should			1. Browser need to be	Browser should be opened
orders	be able to exchange the	Browser must be launched		2. webpage need be opened	website should be opened
	page.	webpage must be opened The user need to log in		Type username and password in	user must be allowed to enter their login

			4. log in by clicking the logir button	User should be logged in After logging in, the home page should be displayed,
			5. Select My orders button	The orders by user should be displayed.
			6. exchange item for an order by clicking button.	User should be given details of exchange item .
TC006: My	Check that user should	Browser must be launched	1. Browser need to be	Browser should be opened
Orders		webpage must be opened	2. webpage need be opened	website should be opened
	back and reviews about the item delivered.	The user need to log in	Type username and password in	user must be allowed to enter their login
			4. log in by clicking the logir button	User should be logged in After logging in, the home page should be displayed,
			5. Select My orders button	The orders by user should be displayed.
			Click on Write review button for an item.	User can write review and provide feedback.

6.2.4 .Acceptance Testing

Test Module: Homepage

Product Name	https://blucheez.com.bd/	TC Start Date	03/11/2022	TC Execution Start Date	
Module Name	Homepage	TC End Date	04/11/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Cooperation	Test Case ID	Test Case	Pre-Condition	Test Data	Test Step	Expected Result
displayed after login or not.	TC001:	Check to see if the	Browser must be launched		1.Browser need to be launched	Browser should be opened
TCOO2: Homepage Username and password in user must be launched user name is webpage must be opened displayed on home page or not TCOO3: Homepage In the Browser must be launched user name is webpage must be opened displayed on home page or not TCOO3: Homepage In the Browser must be launched user name is webpage must be opened displayed on home page or not TCOO3: Homepage In the Browser must be launched user name webpage must be opened displayed on home page or not TCOO3: Homepage In the Browser must be launched user name webpage must be opened displayed on home page in the user must be signed in an interview of the user must be signed in an interview of the user must be signed in an interview of the user must be signed in an interview of the user must be signed in an interview of the user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user must be allowed to enter togin and password in user should be opened webpage must be opened application on different browsers. TCOO5: Check to see if the the Browser must be launched to enter togin and password in user should be opened webpage must be opened application on different browsers. TCOO6: Chec	Homepage		s webpage must be opened		2. webpage need be opened	website should be opened
TC002: Homepage Homep		not.	The user must be signed in		3. Type username and password in	user must be allowed to enter their login and password
Check to see if the Browser must be launched user name is webpage must be opened displayed on home page or not						After logging in, the home page should
displayed on home page or not the user must be signed in page or not the user must be signed in the user must be signed in the user must be signed in the user must be allowed to enter to login and password in user must be allowed t					1.Browser need to be launched	
Degree or not 1. Type username and password in user must be allowed to enter to login and password in login and password be displayed. TCO03: Homepage	Homepage		webpage must be opened		2. webpage need be opened	website should be opened
TC003: Homepage Check to see if the Browser must be launched Homepage Homepage Check to see if the Browser must be opened displayed on home The user must be signed in Page TC004: Homepage Check to see if the Browser must be launched Browser should be opened 3. Type username and password in user must be allowed to enter to login and password 4. The user need to log in by click the User should be opened website should be opened TC004: Homepage Check to see if the Browser must be launched webpage must be opened The user must be signed in Page. TC005: Homepage Check to see if the the Browser must be launched webpage must be opened The user must be signed in Page. TC005: Homepage TC005: Check to see if the the Browser must be launched home page of application on different browsers. TC006: Check to see if the Browser must be signed in Page of application on different browsers. TC006: Check to see if the Browser must be launched home page of application on different browsers. TC006: Check to see if the Browser must be launched home page of application on different browsers. TC006: Check to see if the Browser must be launched the alignment on the home page of application on different browsers. TC006: Check to see if the Browser must be launched webpage must be opened The user must be signed in and home should be opened The user must be signed in and home should be opened The user must be signed in and home should be same on different browsers. TC006: Check to see if the Browser must be launched the alignment on the home page of application on the launched the alignment on the home page of application on the launched the alignment on the home page of application on the launched the alignment on the home page of application on the launched the alignment on the home page of application on the launched the alignment on the home page of application on the launched the alignment on the home page of application on the launched the alignment on the home page of application on the launched the alignment on the home			The user must be signed in		3. Type username and password in	user must be allowed to enter their login and password
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Homepage home page of application on different browsers. A continuous page of application on different browsers					4. Click on login button	User should be logged in and Search functionality is present on home page.
application on different browsers. The user must be signed in The user must be signed in different browsers. The user must be signed in The user must be s	TC005:	Check to see if the the	Browser must be launched		1.Browser need to be launched	Browser should be opened
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Homepage the alignment on the home page the user must be signed in the user must be allowed to enter the user mus	TC006:	Check to see if the	Browser must be launched		1.Browser need to be launched	Browser should be opened
3. Type username and password in user must be allowed to enter t	Homepage	•		2	webpage need be opened	website should be opened
login and password		поте раде	I ne user must be signed in		3. Type username and password in	user must be allowed to enter their login and password

				 The user need to log in by click the login 	User should be logged in and alignment of products on home page should be proper.
TC007:	Check to see if the	ck to see if the Browser must be launched		1.Browser need to be launched	Browser should be opened
Homepage	that products displayed on home	webpage must be opened		2. webpage need be opened	website should be opened
	page are clickable.	The user must be signed in	<u> </u>	3. Type username and password in	user must be allowed to enter their login and password
				 The user need to log in by click the login 	User should be logged in After logging in, the home page should be displayed,
				5. Select any product displayed on home page	User should be redirected to product specification page.
TC008:		Browser must be launched	1	1.Browser need to be launched	Browser should be opened
Homepage	when user clicks on a product, user should	webpage must be opened The user must be signed in		2. webpage need be opened	website should be opened
	be redirected to product specification	The user must be signed in	<u> </u>	3. Type username and password in	user must be allowed to enter their login and password
	page.			 The user need to log in by click the login 	User should be logged in After logging in, the home page should be displayed,
				5.Select product displayed on home page	User should be redirected to product specification page.
TC009:		Browser must be launched	 	1.Browser need to be launched	Browser should be opened
Homepage		webpage must be opened		2. webpage need be opened	website should be opened
	page.	nt on home The user must be signed in	<u> </u>	3. Type username and password in	user must be allowed to enter their login and password
				 The user need to log in by click the login 	User should be logged in After logging in, the home page should be displayed,
				5.Click on user name displayed on home page.	User profile should be displayed.
TC0010:	Check to see if the	Browser must be launched	,	1.Browser need to be launched	Browser should be opened
Hpmepage	products displayed on home page are	webpage must be opened		2. webpage need be opened	website should be opened
	categorised.	1 0	;	3. Type username and password in	user must be allowed to enter their login and password
				 The user need to log in by click the login 	Used should be logged in and home page should be displayed, products should be categorised

Test Module: Login (Admin Panel)

Product Name	https://blucheez.com.bd/	TC Start Date	05/11/2022	TC Execution Start Date	
Module Name	Login (Admin)	TC End Date	06/11/2022	TC Execution End Date	
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	
Developer Name (TL)	Mainuddin	Test Case Reviewed By		App (Tested)	

Test Case ID/Name	Test Case Description	Precondition	Test Data	Step Description	Expected Result
TC001: Login	valid email/username field check	Admin should be registered in the system.		1. Navigate to Admin Login Pane	Admin login page should open
		oyolom.		2. Enter the valid username/emai	The valid username will be taken
				3. User must be allowed to enter	-
				4. log in by clicking the login	-
TC002: Login	Empty email/username field check	Admin should be registered in the system.		Navigate to Admin Login Pane	
				Keep empty the username/email field	The username field will return error
				3. User must be allowed to enter	the password will be taken
				4. log in by clicking the login	Login should have unsuccessfull
TC003: Login	Check login functionality with invalid email id	Admin should be registered in the system.		Navigate to Admin Login Pane	Admin login page should open
		System.		Keep empty the username/email field	The username field will return error
				3. User must be allowed to enter	the password will be taken
				4. log in by clicking the login	Login should have unsuccessfull
TC004: Login	valid password field check	Admin should be registered in the system.		Navigate to Admin Login Pane	Admin login page should open
		System.		2. Enter the username/email field	The username will be taken
				3. User must be allowed to enter	the password will be taken
				4. log in by clicking the login	Login should have successfull
TC005: Login	Empty password field check	Admin should be registered in the system.		Navigate to Admin Login Pane	Admin login page should open
		System.		2. Enter the username/email field	The username field will be taken
				User must be allowed to enter their login	the password field will return error
				4. log in by clicking the login	Login should have unsuccessfull
TC006: Login	Check login functionality with invalid password	Admin should be registered in the system.		Navigate to Admin Login Pane	Admin login page should open
		3,500		2. Enter the username/email field	The username field will be taken
				their login	the password field will return error
				log in by clicking the login button	Login should have unsuccessfull

Chapter 7: Test Case Develop and Execution

The test case is a set of instructions that a tester need to follow to successfully execute the project. At first, tester develop the test case to understand better that what will be the best output for the test project or what will be the way to achieve the goal as soon as possible. To execute the test case the tester follows a certain testing method. There are mainly two ways to perform testing which are manually and automatically and those testing are performed following the test techniques which are Black Box testing and White Box testing.

Manual Testing

The human performs manual testing step by step by following the test cases without any test scripts.

Automation Testing

Along with many scripts and tools, the testing executes automatically by following test automation framework.

7.1 Black-Box testing

Black-Box testing is a testing method where the software functionalities are being tested without having any internal coding structure. Black box testing mainly focused on the input and whats the output. In this testing method tester give valid and invalid input to check the system behavior and that's why its also known as behavioral testing.

Types of Black-Box testing

- Functional testing
- Non-Functional Testing
- Regression Testing

Functional Testing

In the functional testing the system functionalities are being checked and whats the behavior of the functions, they are function properly or not also being checked in this testing.

Non-Functional Testing

In the non-Functional Testing the non-Functional requirements are being checked like the system performance under heavy load and stress.

Regression Testing

Regression testing is a testing type where the testing start after completing all kind of testing to find out that if there are any new malfunctioning module or any working function are effected or not.

7.2 White Box Testing

White Box is a testing Method where the system code, design and business logic are being checked. In white Box code is visible to the tester everything is transparent that's why its also called transparent box testing or code box testing. For white Box testing must have coding knowledge and create test cases and execute the cases.

Types of White Box Testing

- Unit Testing
- Testing for Memory Leaks

Unit Testing

Unit testing the is first step of testing. Mostly unit testing done by the developer. Unit test performs on a particular module where the module code need to be visible for clarity. sometimes major bug can hide ina few lines of code mistake.

Testing for memory leaks

For system running slow, the main reason behind this is memory leaks . As a QA we need to do test for memory leaks.

7.3 Verification

Verification is a process to identify that is the software are build as per user requirement or not.

7.4 Validation

Validation is a process to ensure that the software meets the user true needs and the expectations.

7.5 Test Case Execution

7.5.1 Unit testing

Test module name: Registration

Product Name	https://blucheez.com.bd/	TC Start Date	10/10/2022	TC Execution Start Date	10/11/2022
Module Name	UserRegistration	TC End Date	15/10/2022	TC Execution End Date	11/11/2022
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	Yes
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Hasan	App (Tested)	No

Test	Case	Test Case	Precondition	Test Data	Step Description	Expected Result	Actual Result	Status	Remark
TC Register	001:	field empty	Browser should be installed		1. Go to URL https://blucheez.com.bd/	URL should be oper successfully in browser	1. Url working properly	PASS	
			2. Enter Valid URL		2. Click Register link	2. Link should work properly	2. Link are workir Properly		
					3. Keep all field empty	3. Field can be selected	3. Field can Select		
					Click on ""Create Account"" button"	Button should work with a popup error message	4. Got an erro message with proper Explanation		
TC Register	002:		Browser should be installed 2. Enter Valid URL	Shago r Mahm	1. Go to URL https://blucheez.com.bd/	URL should be open successfully in browser	Url working properly	PASS	
			Z. Enter valid OKE	Shakil	2. Click Register link	2. Link should work properly	Properly		
					3. Enter valid name	3. Field can be selected	3. Field can Select		
					4. Fill up others field with	4. Field can be selected	4. Successfully		
					5. Click on ""Create	5. Button should work	5. Button are working		
TC Register		without entering	Browser should be installed		1. Go to URL https://blucheez.com.bd/	URL should be open successfully in browser	Url working properly	PASS	
			2. Enter Valid URL		Click Register link	2. Link should work	2. Link are workir		
					3. Keep name field empty	3. Field can be selected	3. Field can Select		
					4. Fill up others field with	4. Field can be selected	4. Successfully		
					5. Click on ""Create	5. Button should work	4. Button are working		
TC Register	004:	number	Browser should be installed Enter Valid URL	99923456 897	1. Go to URL https://blucheez.com.bd/	URL should be open successfully in browser	Url working properly	FAILL	
					Click Register link	2. Link should work	2. Link are workir		
					3. Enter invalid name using	3. Field can be selected	3. Field can Select		
					Fill up others field with valid info	4. Field can be selected	Successfully entering data		
					5. Click on ""Create Account"" button"	5. Button should work with a popup error message	5. Button are working and the name field got accepted		
TC Register	005:	Invalid name field check with special character		\$%^&*E3 3	1. Go to URL https://blucheez.com.bd/	URL should be open successfully in browser	Url working properly	FAILL	

3. Enter invalid name using 3. Field can be selected 4. Successfully and the source field with 4. Field can be selected 4. Successfully and the source field 1. Browser check with hird and should properly targ. TC 006 invalid name field 1. Browser check with hird and should properly targ. TC 006 invalid name field 2. Enter Valid URL 7. Co to URL 1. URL should be open 1. Url working properly and the source field 1. Browser check with hird and should properly targ. TC 007 Valid email field 1. Browser should be residual field or common field or check with state of the check should be residual field 1. Browser should be residual field or common f			2. Enter Valid URL		2. Click Register	Link should work properly	2. Link are workin Properly		
Register Check with firmt and should be installed control of the c					3 Enter invalid name using				
CC 005 Invalid name field 1. Browser should be come to check with him land should be phylog. 2. Enter Valid URL 1. 27-2 2. Enter Valid URL 1. 27-2 2. Enter Valid URL 1. 27-2 3. Enter invalid name with 3. Field can be selected 3. Field can Select million of the common with a popular part of the common with a									
Account** button** with a popupare and the property of the development of the developme					11.11.6				
TC 007 Yalid email field 1. Browser check with herit and should be phytiag. 2. Enter Valid URL 1. 12 Click Register 2. Link should world 2. Link are working size of the phytiag. 2. Enter Valid URL 1. 12 Click Register 2. Link should world 2. Link are working size of the phytiag. 2. Enter Valid URL 1. 12 Click Register 3. Field can be selected 3. Field can be selected 4. Successfully entering data accepted without only a successfully in browser installed below the size of the phytiage of th						with a popup	and the		
Register check with huma and should be phy tag. Physical Content of the physical check with full of the physical check with form of the physical check with form of the physical check check check check without 'ge' Physical check with full of the physical check che						error message	name field and		
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TC 008 Invalid email address check without '@' so com' address check without 'com' add						4. Field can be selected			
Account** button.* Successfully and the successfully Registered Account** button.* Successfully and the successfully Registered TC 008 Invalid email address check without '@' address check without '@' address check without '@' address check without '@' address check without 'account** button.* Successfully in browser installed address check should be installed address check without 'com' address check should be installed and complete the should be open 1. Url working property and complete the							-		
Register address check without '@' and the installed 2. Enter Valid URL 2. Click Register 3. Field can be selected 3. Field can Select 4. Fill up others field with 4. Field can be selected 4. Successfully entering data 5. Click on "Create 5. Button should work 5. Button are working with a popup error message error message 4. Fill up others field with 4. Field can be selected 4. Successfully entering data 6. Click on "Create 5. Button should work 5. Button are working with a error message error message 6. Click Register 2. Click Register 3. Field can be selected 3. Field can Select without "".com" 8. Enter Valid URL 4. Fill up others field with 4. Field can be selected 4. Successfully in browser in the property successfully entering data and the property succ							and the successfully		
Register address check without '@' and the installed address check without '.com' and the property and the p									
2. Click Register 2. Link should work2. Link are workin properly Properly 3. Enter email address 3. Field can be selected 3. Field can Select 4. Successfully entering data 4. Fill up others field with 4. Field can be selected 4. Successfully entering data 5. Click on "Create 5. Button should work 5. Button are working with a popup error message error message error message TC 009 Invalid email 1. Browser should be installed 2. Enter Valid URL 70bit voo installed 2. Enter Valid URL 7. Click Register 2. Link should be open 1. Url working properly successfully in browser 2. Click Register 2. Link should work 2. Link are working properly 8. Click Register 2. Link should work 2. Link are working properly 9. Click Register 2. Link should work 3. Field can Select without "".com"". 4. Fill up others field with 4. Field can be selected 4. Successfully 5. Click on ""Create 5. Button should work 5. Button are working Account" button. with a popup with a	TC 008 Register	address check	should be installed	70bit		•	Url working properly	PASS	
4. Fill up others field with 4. Field can be selected 4. Successfully entering data 5. Click on "Create5. Button should work5. Button are working with a popup with a popup with a dress check without '.com' 1. Browser should be installed 2. Enter Valid URL 2. Click Register 2. Link should work 2. Link are working Properly Properly 3. Enter email address 3. Field can be selected 3. Field can Select without "".com"". 4. Fill up others field with 4. Field can be selected 4. Successfully properly PASS and the properly PASS of the properly PASS and the properly PASS			2. Enter Valid URL		2. Click Register				
valid info. Valid info. Society Society					3. Enter email address	3. Field can be selected	3. Field can Select		
Account" button." with a popup error message with a error message TC 009 Invalid email address check without '.com' Register should be installed 2. Enter Valid URL 2. Click Register 2. Link should work 2. Link are workin Properly 3. Enter email address 3. Field can be selected without "".com"". 4. Fill up others field with 4. Field can be selected 4. Successfully in a popup with a popup						4. Field can be selected			
Register address check without '.com' should be installed 2. Enter Valid URL 2. Click Register 2. Link should work 2. Link are workin Properly 3. Enter email address 3. Field can be selected without "".com"". 4. Fill up others field with 4. Field can be selected 4. Successfully 5. Click on ""Create 5. Button should work 5. Button are working with a popup with a						with a popup	with a		
Register address check without '.com' should be installed 2. Enter Valid URL 2. Click Register 2. Link should work 2. Link are workin Properly 3. Enter email address 3. Field can be selected without "".com"". 4. Fill up others field with 4. Field can be selected 4. Successfully 5. Click on ""Create 5. Button should work 5. Button are working with a popup with a			_					_,	
2. Click Register 2. Link should work2. Link are workin properly 3. Enter email address 3. Field can be selected without "".com"". 4. Fill up others field with 4. Field can be selected 4. Successfully 5. Click on ""Create 5. Button should work5. Button are working Account"" button." with a popup with a	TC 009 Register	address check	should be installed		1. Go to URL https://blucheez.com.bd/		Url working properly	PASS	
without "".com"". 4. Fill up others field with 4. Field can be selected 4. Successfully 5. Click on ""Create 5. Button should work 5. Button are working Account" button." with a popup with a			2. Enter Valid URL		2. Click Register				
5. Click on ""Create5. Button should work5. Button are working Account" button." with a popup with a					without	3. Field can be selected	3. Field can Select		
5. Click on ""Create5. Button should work5. Button are working Account" button." with a popup with a					4. Fill up others field with	4. Field can be selected	4. Successfully		
Account"" button." with a popup with a					11.11.6				
						with a popup	with a		

Tc Register	010			https://blucheez.com.bd/ 2. Click Register	URL should be open successfully in browser Link should work properly	Url working properly Link are workin Properly	PASS	
				4. Fill up others field with valid info. 5. Click on ""Create Account"" button."	3. Field can be selected4. Field can be selected5. Button should work with a popup error message	Successfully entering data		
TC Register		Password	Browser should be installed Enter Valid URL	https://blucheez.com.bd/	URL should be open successfully in browser		PASS	
				S. Enter valid Password. Fill up others field with	properly 3. Field can be selected 4. Field can be selected	4. Successfully		
					5. Button should work Sucessfully	5. Button are working and successfully Registered		

TC Register	012	Verify Password field entering less than 5 charcter		shag	1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser	PASS	
			Z. Eliter Valid OKE		2. Click Register	Link should work2. Link are workin properly		
					 Enter Password of less than 8 charcter. 	3. Field can be selected 3. Field can Select		
					Fill up others field with	4. Field can be selected 4. Successfully		
					5. Click on ""Create Account"" button."	5. Button should work 5. Button are working with a popup with error message proper error message		
						2.020. 0.10. 11000330	PASS	
TC Register	012	address checkVerify	Browser should be installed Enter Valid URL		1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser		
		entering any letter			2. Click Register	Link should work2. Link are workin		
					-	3. Field can be selected 3. Field can Select		
					than 8 charcter.	5. Field can be selected 5. Field can delect		
					4. Fill up others field with	4. Field can be selected 4. Successfully		
					5. Click on ""Create Account"" button."	5. Button should work5. Button are working with a popup with error message proper error message		
TC	013	Verify Password		xicoka38		STOCK THOUSAND	FAILL	
Register		field without entering any symbol	should be installed 2. Enter Valid URL	70@ bitvoo.co	1. Go to URL, https://blucheez.com.bd/	URL should be open 1. Url working properly successfully		
			2. Linei Vallu OKL	<u></u>	2. Click Register	in browser 2. Link should work2. Link are workin		
					 Enter Password without any number or symbol. 	3. Field can be selected 3. Field can Select		
					4. Fill up others field with	4. Field can be selected 4. Successfully		
					5. Click on ""Create Account"" button."	5. Button should work 5. Button are working successfully with proper error message		
TC	014	Verify OTP	1. Browser		1. Go to URL.	URL should be open 1. Url working properly	FAILL	
Register	014	verily OTF	should be installed 2. Enter Valid URL		https://blucheez.com.bd/	successfully in browser	FAILL	
			2. Effici Vallo UKL		2. Click Register	2. Link should work2. Link are workin		
					3. Fill up all field with valid	3. Field can be selected 3. Field can Select		
					info	4. Button should work 4. Successfully		
					5. Enter OTP code."	5. OTP should passed 5. there was no OTP		
TC Register	015	Verify to get registered with the same email address previously used for the	should be installed	70@ bitvoo.co	1. Go to URL, https://blucheez.com.bd/	URL should be open successfully in browser	PASS	
		registration.			Click Register	Link should work2. Link are workin		
						3. Field can be selected 3. Field can Select		
					used for the registration.	4 Field can be selected 4 Suggestion		
					4. Fill up others field with	antarina data		
					5. Click on ""Create Account"" button."	5. Button should work5. Button are working with a popup with error message proper error message		

Remarks:

B <mark>lucheez*</mark>
PLEASE ADJUST THE FOLLOWING: • Email can't be blank • Password can't be blank
First Name
Last Name
Email *
⚠ Email can't be blank.
Password * A Password can't be blank.
Register

Fig 9: Register TC001

Reference: Test Case 003

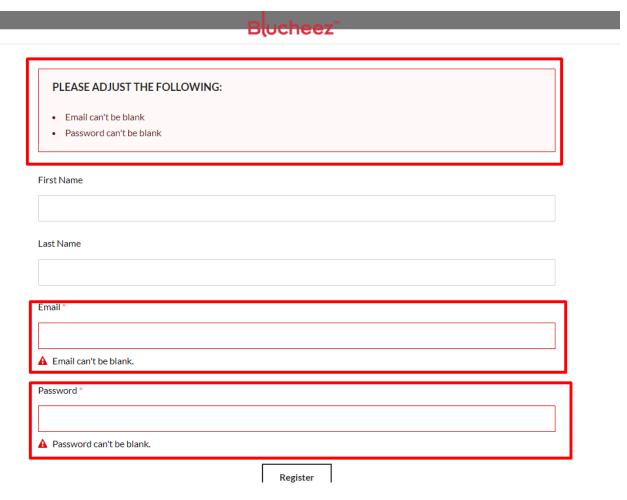


Fig 10: Register TC 003



Fig 11: Register TC 005

Reference: Test Case 006

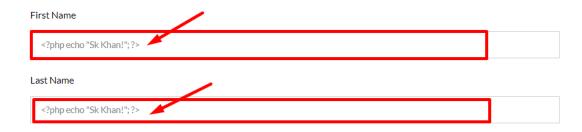


Fig 12: Register TC 006

Reference: Test Case 010



Fig 13: Register TC 010



Fig 14: Register TC 011

Reference: Test Case 012



Fig 15: Register TC 012

Reference: Test Case 015



Fig 16: Register TC 015



Fig 17: Register TC 017

Test module name: Search

Product Name	https://blucheez.com.bd/	TC Start Date	16/10/2022	TC Execution Start Date	14/11/2022
Module Name	Search	TC End Date	18/10/2022	TC Execution End Date	15/11/2022
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	Yes
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Hasan	App (Tested)	No

Test Case ID	Test Case Description	Pre-Condition	Test Data	Step Description	Expected Result	Actual Result	Status	Remar ks
TC001: Search	Verify that search field accepts alphabets, numbers or symbols.		%3	1. Open browser	Browser should be opened	Browser are opened successfully	PAS	
				2. Go to URL, https://blucheez.com.bd/	website should be opened	Website are opened in browser perfectly	S	
		Should set up a browser. Internet access should be available.		3. Click on search field.	Search field should accepts alphabets, numbers or symbols.	Got the result for searching special character		
	Make sure the search should be carried out after you enter your	Should set up a browser. Internet access should be available.	Search products	1. Open browser	Browser should be opened	Browser are opened successfully		
	search terms and click the search icon			2. Go to URL, https://blucheez.com.bd/	website should be opened	Website are opened in browser perfectly	PAS S	
				Type search term into the search window, then click the search symbol	The user-provided search text should guide the conduct of the search	search icon are fuctionable		
TC003: Search	Verify that the search results should be as per the search query.	Should set up a browser. Internet access should be available.	Clothing	1. Open browser	Browser should be opened	Browser are opened successfully		
	por the coulon query.			2. Go to URL, https://blucheez.com.bd/	website should be opened	Website are opened in browser perfectly		
				Type username and password in	user must be allowed to enter their login and password	entered the user name and password successfully	PAS S	
				4.Log in by clicking the login button	User should be logged in After logging in, the home page should be displayed,	successfully logged in		
				5. Type search term into the search window, then click the search symbol	The user-provided search text should guide the conduct of the search	Got the result for searching		
TC004: Search	Make sure the user can search using the product name, brand	Should set up a browser. Internet access should be available	punjabi	1. Open browser	Browser should be opened	Browser are opened successfully		
	name, or specification			2. Go to URL, https://blucheez.com.bd/	website should be opened	Website are opened in browser perfectly		
				Type username and password in	user must be allowed to enter their login and password	entered the user name and password successfully	PAS S	

				4.Log in by clicking the login button 5. Type search term into the search window, then click the search symbol	User should be logged in and Search functionality is present on home page. The user should have the option to search for products based on their names, brands, or specifications	successfully logged in Got the result for searching		
	Verify that filter should be present for filtering the search results bases on Brand, Price, Reviews or Ratings.	Should set up a browser. Internet access should be available. The user must be signed in	1200	Open browser Go to URL, https://blucheez.com.bd/	Browser should be opened website should be opened	Browser are opened successfully Website are opened in browser perfectly		
				3. Type username and password in	user must be allowed to enter their login and password	entered the user name and password successfully	FAIL L	
				4.Log in by clicking the login button	User should be logged in After logging in, the home page should be displayed,	successfully logged in		
				5. Type search term into the search window, then click the search symbol	The user-provided search text should guide the conduct of the search	Got the result for searching		
TC006: Search	Make sure that sorting options should be present on search	Should set up a browser. Internet access should be available		1. Open browser	Browser should be opened	Browser are opened successfully		
	results page.			2. Go to URL, https://blucheez.com.bd/	website should be opened	Website are opened in browser perfectly		
				Type username and password in	user must be allowed to enter their login and password	entered the user name and password successfully	FAIL L	
				4.Log in by clicking the login button	User should be logged in After logging in, the home page should be displayed,	successfully logged in		
				5. Type search term into the search window, then click the search symbol	The user-provided search text should guide the conduct of the search	Got the result for searching		
TC007: Search	Verify that the number of search results displayed on	Should set up a browser. Internet access should be available	Search products	1. Open browser	Browser should be opened	Browser are opened successfully		
	one page.			2. Go to URL, https://blucheez.com.bd/	website should be opened	Website are opened in browser perfectly		
				Type username and password in	user must be allowed to enter their login and password	entered the user name and password successfully		

					User should be logged in After logging in, the home page should be displayed,	successfully logged in	PAS S	
				5. Type search term into the search window, then click the search symbol	The user-provided search text should guide the conduct of the search	Got the result for searching		
TC008: Search	Make sure that there should be navigation button(Next and	Should set up a browser. Internet access should be available	Search products	1. Open browser	Browser should be opened	Browser are opened successfully		
	Previous) for navigation to pages.			2. Go to URL, https://blucheez.com.b d/	opened	Website are opened in browser perfectly		
				3. Type username and password in	user must be allowed to enter their login and password	entered the user name and password successfully	PAS S	
				4.Log in by clicking the login button	User should be logged in After logging in, the home page should be displayed,	successfully logged in		
				5. Type search term into the search window, then click the search symbol	Search should be performed according to text provided by user and navigation button should be present on search result page.	Got the result for searching		
TC009: Search	Verify that user should be perform search in different	Should set up a browser. Internet access should be available	Search products	1. Open browser	Browser should be opened	Browser are opened successfully		
	categories for example, clothing			2. Go to URL, https://blucheez.com.b d/	website should be opened	Website are opened in browser perfectly		
				3. Type username and password in	user should be able to input username and password	entered the user name and password successfully	PAS S	
				login button	Home page should be displayed after login and user name should be displayed on home page	successfully logged in		
				5. Type search term into the search window, then click the search symbol	Search should be performed in different categories such as Punjabi , T-shirts .	Got the result for searching		

Remarks

Reference: Search TC 001

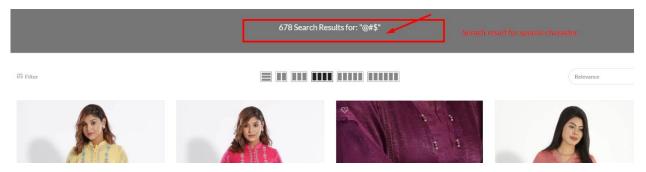


Fig 18: Search TC 001

Reference: Search TC 003

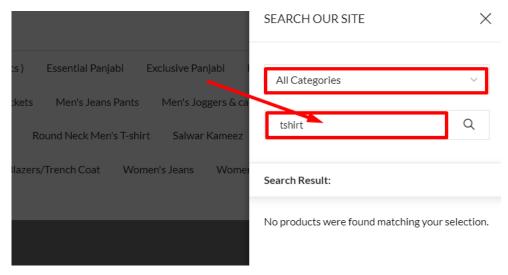


Fig 19: Search TC 003

Reference: Search TC 004

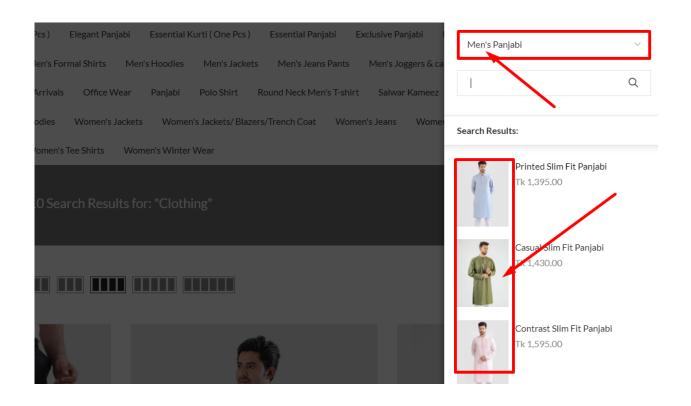


Fig 20: Search TC 004

7.5.2 Integration Testing

Test module name: Login

Product Name	https://blucheez.com.bd/	TC Start Date	19/10/2022	TC Execution Start Date	16/11/2022
Module Name	Login	TC End Date	20/10/2022	TC Execution End Date	17/11/2022
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	Yes
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Hasan	App (Tested)	No

Test Case	Test Coor	Precondition	Test Data	Step Description	Expected Result	Actual Result	Status	Remarks
TC001: Login		User should be			URL should navigate	Url working	Cialus	Lemans
	email/username	registered in the	oo.com	https://blucheez	to the required website	properly		
	field check	system.		.com.bd/ 2 Click "Sign in" link	Sign Link should work	Link are working	PASS	
					Field can be selected	Field are selected		
				username/email				
				4. Click on "Continue'	Button should work	Button functionality		
TC002: Login	Empty	User should be		1. Go to URL,	URL should navigate	Url working		
	email/userna me field check	registered in the system.		https://blucheez .com.bd/	to the required website	properly		
				2. Click "Sign in" link	Sign Link should work	Link are working	PASS	
				3. Keep empty the field	Field can be selected	Field are selected		
				iiciu	Button should work	Button		
				 Click on "Continue" button 	with popup error	functionality		
TC003: Login	Check login	User should be			URL should navigate	Url working		
		registered in the	00	https://blucheez	to the required website	properly		
	invalid email id	system.			Sign Link should work	Link are working	PASS	
				enter invalidusername/email	Field can be selected	Field are selected		
				4. Click on "Continue"		Button		
				button	with popup error	functionality		
TC004: Login	valid password	User should be registered in the	itsempty	1. Go to URL, https://blucheez	URL should navigate	Url working properly		
	field check	system.		.com.bd/	to the required website	property		
		.,			Sign Link should work	Link are working	D: 24	
					Field can be selected	Field are selected	PASS	
				4. Click on "Continue"		Button		
				button	with popup error message	functionality are working		
				5. Enter valid	Field can be selected	Field are selected		
				6. Click on "Sign in'	Button should work	Button		
				button		functionalaties		
TC005: Login	Empty password	User should be registered in the		1. Go to URL, https://blucheez	URL should navigate to the required website	Url working properly		
	field check	system.		2. Click "Sign in" link	Sign Link should work	Link are working		
				3. Enter valid	Field can be selected	Field are selected	PASS	
				4. Click on "Continue"	Button should work	Button		
				button	with popup error	functionality		
					Field can be selected	Field are selected		
				Click on "Sign in' button	Button should work with popup error	Button functionalaties		
TC000: L - · ·	Chask I-:	Hoor objected				oro working		
TC006: Login		User should be registered in the	newpassword	1. Go to URL, https://blucheez	URL should navigate to the required website	Url working properly		
	invalid password	system.		.com.bd/	to the required website	1 1		
				2. Click "Sign in" link	Sign Link should work	Link are working	PASS	
				3. Enter valid	Field can be selected	Field are selected		
				4. Click on "Continue'	Button should work	Button		
				button	with popup error	functionality		
				- I	message	are working		
				fiold oppty	Field can be selected	Field are selected		
				Click on "Sign in' button		Button functionalaties		
				Dation	with popup error	oro working		

Remarks:

Reference: Login TC 001

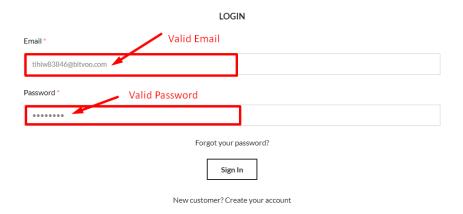


Fig 21: Login TC 001

Reference: Login TC 002

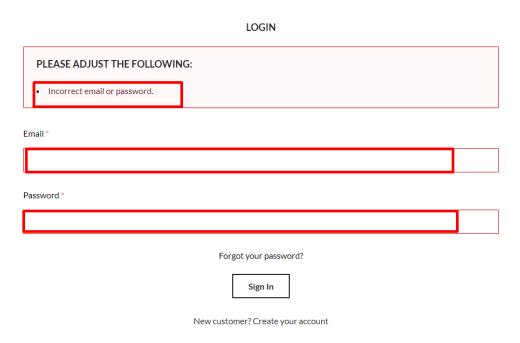


Fig 22: Login TC 002

Reference: Login TC 003



Fig 23: Login TC 003

Reference: Login TC 004

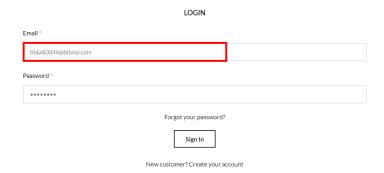


Fig 24: Login TC 004

Reference: Login TC 006

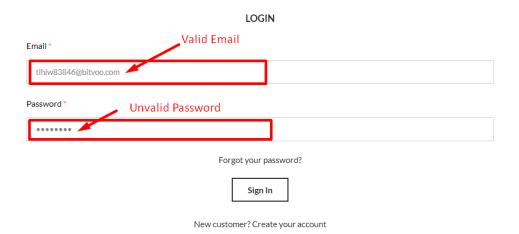


Fig 25: Login TC 006

Test module name: Product Details

Product Name	https://blucheez.com.bd/	TC Start Date	20/10/2022	TC Execution Start Date	18/11/2022
Module Name	Product Details	TC End Date	21/10/2022	TC Execution End Date	19/11/2022
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	Yes
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Hasan	App (Tested)	No

Lest Case ID		Pre-Condition	Test Data	Test Step	Expected Result	Actual Result	Status	Remarks
TC001:	Verify that product Image showing correctly	Browser should be installed	Clothing	1. Open browser 7. Go to URL, https://blucheez.com.bd/	website should be opened	Successfully Browser opened and showing the images correctly on product details	PA SS	
				Click on a product displayed on home page.	the images of product should be displayed correctly.	page		
TC002 : Prod	Verify that price of product is	Browser should be installed Internet connection should		Go to URL, https://blucheez.com.bd/	Browser should be opened website should be opened			
uct Detai Is	displayed.	be present User should be logged in		Type username and password in	user should be able to input username and password	Successfully Browser opened and showing the images correctly		
TC003: Prod uct	, ,	Browser should be installed Internet connection should be		Open browser Go to URL, https://blucheez.com.bd/	The price of product should be displayed. website should be opened	on product details page and the price of the product are		
	are mentioned.	present User should be logged in		Type username and password in	user must be allowed to enter their login and password	showing	PA SS	
				log in by clicking the login button	After logging in, the home page should be displayed along with the user's name			
					The reviews about the product should be displayed.			

product of present of the present of	TC004:	Verify that	Browser should be	Open browser	Browser should be opened	Successfully Browser		
secondaria connection should be more and user must be allowed to enter their bright and password in some page. TODIS: Varify that Stower should be installed insmet should be displayed. TODIS: Varify that Stower should be installed insmet should be displayed and showing between the store of the stower of the		,				•		
displayed. User's the larged in buildings of the large of	uct	i.	connection should be					
Indicated the control of the contr	Detai	ns are	present	Go to URL.	website should be opened	on product details		
TOOS: Verify that Browser should be displayed. Sock are User should be displayed. Sock are User should be displayed and paged in the User Sock are User should be displayed. Sock are User should be displayed on home page. TOOS: Verify that Browser should be user of the User Sock are User should be displayed. Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User should be user of the User Sock are User S	ls	displayed.						
Type username and password in User must be allowed to enter their login and password in Size to the password in Si			loggea in			•		
TCO05: Verify that Browser should be Click on a product displayed Decided in statistical internation Decided in						showing perfectly		
TCO05: Verify that Browser should be Click on a product displayed Decided in statistical internation Decided in				Type username and	user must be allowed to			
TCODS Verify that Stock are User should be User								
TCODS: Verify that Browser should be Colick on a product displayed along with the user's name Colick on a product displayed along with the user's name Colick on a product displayed along with the user's name Colick on a product displayed along with the user's name Colick on a product displayed Colic					password		PA	
TCODG: Verify that Browser should be information for the commendation should be information of the commendation should be information for the commendation should be information of the commendation should be information should be information of the commendation should be information sho								
TCODG: Verify that located by the control of the product displayed along with the user's name of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the product displayed on home page. TCODG: Verify that located by the control of the product displayed on home page. TCODG: Verify that located by the product displayed on home page. TCODG: Verify that located by the product displayed on home page. TCODG: Verify that located by the product displayed on home page. TCODG: Verify that located by the product displayed on home page. TCODG: Verify that located by the product displayed on home located by the product displayed on home page. TCODG: Verify that located by the product displayed on home located by the								
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TCO05: Verify that Browser should be information installed internet source of the state of the s					00 0			
Click on a product displayed on home page. Click on a product people of should be information installed internet about N- close in should be ordered about N- close in sho				Datton				
CODS: Verify that Browser should be Open provisor TODO: Verify that Browser should be Open provisor TODO: Verify that Browser should be Open provisor Topo Verify that Open provisor Verify that Verify that Verify that Open provisor Verify that Verify that Open provisor Verify that Verify th								
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Verify that Product								
Information installed Internet und to be a straight of the state of the straight of the stra				, 0	displayed.			
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Detail Is Stock Out Dersent Sasword in Deasword					·			
Sock are displayed logged in loggin by clicking the login log in by clicking the logi						•		
displayed. logged in log in by clicking the login After logging in, the home page should be displayed along with the user's name.			'	password in		•	PΑ	
Detai Is Browser should be Issalled Internet Size of the state of the sta	["			log in by clicking the login				
TC006: Verify that Browser should be seller ratings seller ratings onnection should be button betain lis all element displayed. TC007: Verify that Browser should be logged in seller at the propert of the seller and		alopia) oai				•		
TC00E: Verify that seller aritings on both the product of the pr						' '		
TC00E: Verify that seller aritings on both the product of the pr				Click on a product displayed	Stock information should			
Prod uct part Prod uct prairings Seller Installed Internet connection should be possent by should be possent by should be possent by should be logged in Seller Se								
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button button page should be displayed along with the user's name, and alignments should be proper. Click on a product displayed on home page. TC007: Verify that installed Internet connection should be product variations of product present ls are User should be displayed. Detai ls are User should be displayed. Is are User should be logged in logged i	ls	displayed.						
TC007: Verify that Prod all the user should be installed Internet on nome page. Detai of product is are displayed. Detai logged in TC008: Verify that Browser should be logged in Detai logge			logged in		00 0	•	SS	
TC007: Verify that Prod all the uct variations Detai log product is are displayed. Verify that are displayed. Verify that are displayed. Verify that broad information is product are product are product are product are displayed. Verify that broad information is product are displayed. Verify that are displayed. Verify that broad information is product are displayed. Verify that are displayed. Verify that are displayed. Verify that broad information is product are displayed. Verify that are displayed. Verify that broad information is product are displayed. Verify that are displayed. Verify tha				button		sowing perfectly		
TC007: Verify that Prod all the uct variations Detail Is Verify that Browser should be proper in the space of product Is Verify that Is Verif					•			
TC007: Verify that Browser should be installed Internet variations of product Is are displayed. Is Browser should be installed Internet variations of product Is are displayed. Is Browser should be present User should be logged in Is Is are User should be logged in Is Is are Is ar					_			
TC007: Verify that Browser should be ut variations Detai Is are displayed. Verify that Browser should be be present User should be logged in User				Click on a product displayed	<u> </u>			
Prod uct variations of product Is are displayed. Is an expense of product Is are both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is are displayed. Is a both the series of product Is a both the series of product Is a both the series of product Is are displayed. Is a both the series of product Is a both the series of product Is are displayed. Is a both the series of product Is a both the series of product Is a both the series of product Is are displayed. Is a both the series of product Is a both the series of prod					ŭ .			
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Detai Service Service		-		Go to URL, https://blucheez.com.hd/	website should be opened	•		
Detai of product are User should be logged in		variations	connection should be		user must be allowed to	the images correctly		
displayed. logged in log			'	1	enter their login and			
button page should be displayed along with the user's name. and alignments should be proper. Click on any product displayed on home page. Click on a product displayed on home spage. Click on a product displayed on home page. All the variations of product should be displayed. Dental information about present User should be present User should be present User should be logged in button Detai about product are displayed. Click on any product displayed along with the user's name. and alignments should be proper. Click on any product displayed along with the user's name. and alignments should be proper. Click on any product displayed along with the user's name. and alignments should be redirected displayed along with the user's name. and alignments should be proper. Click on any product displayed along with the user's name. and alignments should be redirected displayed along with the user's name. and alignments should be redirected displayed on home	ls			1 1 1 1 1 1 1 1 1 1				
along with the user's name, and alignments should be proper. Click on any product displayed on home page. Click on a product displayed on home page. Click on any product displayed along with the user's name. and alignments should be redirected displayed along with the user's name. and alignments should be redirected displayed along with the user's name. and alignments should be redirected displayed along with the user's name. and alignments should be redirected displayed. Click on any product details page and the shipping are sowing perfectly page. Click on any product displayed. Click on any product displayed along with the user's name. and alignments should be redirected displayed along with the user's name. and alignments should be redirected displayed along with the user's name. and alignments should be redirected displayed. Click on any product displayed. Click on any product displayed. User should be redirected to product displayed along with the user's name. and alignments should be redirected displayed. Click on any product dealis page and the shipping are sowing perfectly.		alsplayed.	loggea in		00 0	•		
Click on any product User should be proper.				Dutton		репеспу	SS	
Should be proper. Click on any product displayed on home page Click on a product displayed on home page. Click on a product displayed. All the variations of product should be displayed. Click on a product displayed. Click on a product displayed on home page. Click on a product displayed on home page. Click on a product displayed on home page. Click on any product displayed on home Click on any product disp					•			
Click on any product displayed on home page. Click on a product displayed on home page. Click on a product displayed on home page. Click on a product displayed on home page. All the variations of product should be displayed. Browser should be installed Internet connection should be present product are displayed. Is product are displayed. Click on any product displayed on home page. Click on a product displayed on home page. Click on a product displayed on home page. Click on a product displayed all the variations of product should be opened displayed. Click on a product displayed on home page. All the variations of product should be opened displayed on home product desiplayed. Successfully Browser opened and showing the images correctly on product details page and the shipping are sowing perfectly page should be displayed along with the user's name. and alignments should be proper. Click on any product displayed on home to product appear to product and password on page. All the variations of product should be opened displayed on home to product to					_			
displayed on home page Click on a product displayed On home page. Click on a product displayed On home page. All the variations of product should be displayed. All the variations of product should be displayed. Successfully Browser opened and showing the images correctly on product details password Is product are displayed. Is product are displayed. Is product are displayed. Is product are displayed. Click on a product displayed on home page. Click on a product displayed on home page. All the variations of product should be displayed. Browser should be opened website should be opened on the page should be opened and showing the images correctly on product details page and the shipping are sowing perfectly PA SS Click on a product displayed on home page. Click on a product displayed on home to product to produ				Click on any product				
TC008: Verify that Prod shipping uct information about present User should be logged in User should be opened User should be opened and showing the images correctly on product logged in User should be opened user must be allowed to enter their loggin and password in User should be logged in User should be logged in User				displayed on home	to product			
TC008: Verify that Shipping uct information Detai Is product are displayed. Is product to product are displayed. Is product to product are displayed. Is product are displayed. Is product to product are displayed. Is product to product are displayed. Is product to product to product to								
TC008: Verify that shipping uct shipping uct information about ls product are displayed. Successfully Browser opened showing installed Internet					should be			
Prod shipping installed Internet connection should be present User should be logged in User should be logging in, the home page should be displayed along with the user's name. and alignments should be proper. Click on any product displayed on home User should be opened on the images correctly on product details page and the shipping are sowing perfectly SS	TOCOO	\/orif: +1	Drawaar ah - :	, 0	displayed.	Cuses sefull: D		
Let information connection should be Detai about product are displayed. Solution Connection should be present Detai about product are displayed. Solution Connection should be present Detai about product are displayed. Solution Connection should be product details password Detai about password Deta		. ,		· ·		•		
Detai ls about product ls product are displayed. Detai ls product product ls password in password in password in password password in password passwo					·			
Is product are displayed. User should be logged in User should be logging in, the home page should be displayed along with the user's name. and alignments should be proper. Click on any product User should be redirected displayed on home to product								
are displayed. log in by clicking the login page should be displayed along with the user's name. and alignments should be proper. Click on any product displayed on home to product to product			'	password in		· ·		
displayed. button page should be displayed along with the user's name. and alignments should be proper. Click on any product User should be redirected displayed on home		1.		log in by clicking the login			DΛ	
along with the user's name. and alignments should be proper. Click on any product User should be redirected displayed on home to product		displayed.			page should be displayed	• •		
should be proper. Click on any product User should be redirected displayed on home to product					•			
Click on any product User should be redirected displayed on home to product	1							
displayed on home to product	1			Olistana	· ·			
page specification page.								
				 page	specification page.			

TC009: Prod uct Detai Is	payment options are	Browser should be installed Internet connection should be present User should be logged in	Click on a product displayed on home page. Open browser Go to UKL https://blucheez.com.bd/ Type username and password in log in by clicking the login button Click on user name displayed on home page. Click on a product displayed on home page.	the images of product should be displayed correctly. The shipping information should be displayed. Website snould be opened user must be allowed to enter their login and password After logging in, the home page should be displayed along with the user's name. and alignments should be proper. User profile should be displayed. The payment options should be	Successfully Browser opened and showing the images correctly on product details page and the Paymets are sowing perfectly	PA SS	
Prod uct	product suggestion s related to product	Browser should be installed Internet connection should be present User should be logged in	Open browser Go to URL https://blucheez.com.bd/ Type username and password in log in by clicking the login button	displayed. Browser snould be opened website should be opened user must be allowed to enter their login and password After logging in, the home page should be displayed along with the user's name.	Successfully Browser opened and showing the images correctly on product details page and the Product suggestion are sowing perfectly	PA SS	
				The product suggestions should be displayed.			

Remarks:

Reference: PD TC001



Fig 25: PD TC001

Reference: PD TC002, TC003,TC004,TC005

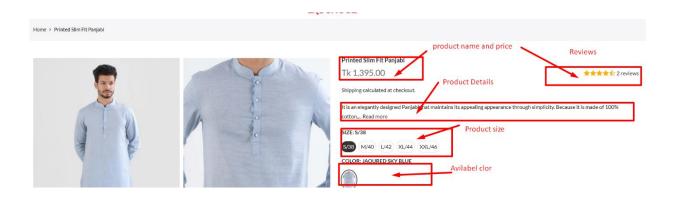


Fig 26: PD TC002, TC003,TC004,TC005

Reference: PD TC008

An estimated delivery time will be provided to you once your order is placed. Delivery times are estimates and commence from the date of shipping, rather than the date of order. Delivery times are to be used as a guide only and are subject to the acceptance and approval of your order.

Unless there are exceptional circumstances, we make every effort to fulfill your order within 3-7 business days of the date of your order. Business day mean Saturday to Thursday, except holidays.

Fig 27: PD TC008

Reference: PD TC009

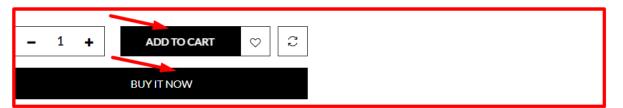


Fig 28: PD TC009

7.5.3 System Testing

Test module name: Cart Page

Product Name	https://blucheez.com.bd/	TC Start Date	21/10/2022	TC Execution Start Date	20/11/2022
Module Name	Cart Page	TC End Date	22/10/2022	TC Execution End Date	21/11/2022
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	Yes
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Hasan	App (Tested)	No

Test Case ID	Test Case	Pre-Condition	Test Data	Test Step	Expected Result	Actual Result	Status	Rem			
								arks			
TC001: Cart	Verify that	Browser should be		1. Open browser	Browser should be opened						
Cart	when user clicks on add to cart, the	installed Internet connection should be present		2.Open url	Bluchezz website should be opened	Website are opened					
	product should be added to			Type username and password in	user must be allowed to	•	PASS				
	cart.			4. log in by clicking the login button	User should be logged in After logging in, the home page should be displayed,						
				5. Click on any product displayed on home page	The product page should be displayed.						
				Click on add to cart for the product.	The product should be added to cart.						
TC002:	Verify that	Browser should be		1. Open browser	Browser should be opened						
Cart	user should be able to continue	installed Internet connection should be present		2.Open url	Bluchezz website should be opened	\\/_b = \dagger					
	l ·	User should be logged in .	User should be logged in	in pi	ng in		Type username and password in	user must be allowed to enter their login and password	Website are opened in browser successfully. After clicking Add to Cart	PASS	
					4. log in by clicking the login button	User should be logged in After logging in, the home page should be displayed,	Successfully Producted added. successful to continue shopping				
					5. Click on any product displayed on home page	The product page should be displayed.	after adding.				
				Click on add to cart for the product.	The product should be added to cart and user can continue shopping.						
TC003:	Verify that	Browser should be		1. Open browser	Browser should be						
Cart	item quantity should be increased if	installed Internet connection should be present		2. Open url	opened Bluchezz website should be						
	user adds same item in cart again.	User should be logged		3. Type username and password in	opened user must be allowed to enter their login and password	III DIOWSEI	DASS				
				4. log in by clicking the login button	User should be logged in After logging in, the home page should be displayed,	successful to adding the same product	PASS				
				5. Click on any product displayed on home page	The product page should be displayed.	and updated.					
				6. Click on add to cart for the product.	The product should be added to cart.						
				7. Click on add to cart again for the same product.	The item quantity should be increases.						

T0004	\/-=:E! .	ID	1. Open browser	Browser should be	l		
TC004: Cart	Verify that	Browser should be	1. Open blowser	opened			
Call	total amount	installed Internet	2.Open url	Bluchezz website should	1		
	of all items	connection should be	·	be	Website are opened		
	should be	present		opened	in browser		
	displayed to	User should be logged	3. Type username and	user must be allowed to			
	user.	in	password in	enter their login and	successiully. After		
				password	clicking Add to Cart		
					Successfully	PASS	
Ì			4. log in by clicking the login button	User should be logged in	Producted added.		
				After logging in, the home	successful to adding		
				page should be displayed,	the same product		
					and updated.		
			5.Click on any product displayed on		Total amount are		
			home	be	showing		
			page	displayed.	Showing		
			6.Click on add to cart for the	The product should be			
			product.	added to			
			7 Oliah an mata	cart.			
			7.Click on go to cart button.	The total amount of all			
				items in			
TOOOF	\	Drouger should be	1. Open browser	cart should be displayed. Browser should be			
TC005:	Verity that	Browser should be	1. Open blowser	opened			
Cart	the amount	installed Internet	2.Open url	Bluchezz website should	1		
	displayed to	connection should be	2.0 po.1 dil	be			1
	user should	present		opened	Website are opened		1
	include the	User should be logged	3. Type username and	user must be allowed to	'		
	taxes and	in	password in		successfully. After		1
	shipping			•	clicking Add to Cart		l
				password		DAGG	l
	charges as		4. log in by clicking the login button	User should be logged in	Successfully	PASS	1
	per location.		1. 15g in by clicking the login button	After logging in, the home	Froducted added.		l
				page should be displayed,	successful to adding		1
				pago oriodia de displayed,	the same product.		
			5.Click on any product displayed on	The product page should	Theres are location		l
			home	be	charges are avilable		1
			page	displayed.	and a viidolo		1
			6.Click on add to cart for the	The product should be			1
			product.	added to			
				cart.			l
			7.Click on go to cart button.	The total amount should			
				include taxes and			1
				shipping charges.			
TC006:	Verify that	Browser should be	1. Open browser	Browser should be			
Cart			55511 51541601	opened			l
Carr	user should	installed Internet	2. Open url	Bluchezz website should	Website are opened		
	not be able	connection should be		be			
	to add items	present		opened	in browser		l
	in cart	User should be logged	3. Type username and	user must be allowed to	successfully. After		l
	beyond a	in	password in	enter their login and	clicking Add to Cart		l
	certain limit.		-	-	Successfully	DASC	
	Jonain milit.			password	Producted added.	PASS	
			4. log in by clicking the login button	User should be logged in			
				After logging in, the home	the same product		
				page should be displayed,	Theres is a limit for		
				page should be displayed,	product		l
			5. Click on any product displayed	The product page should			
			on home	be			l
			page	displayed.			l

ĺ	1	1	6. Click on add to cart for the	The user should not be	1.		l
			product for many times.	allowed to add items to			
				cart beyond a			
				certain limit.			
TC007:	Verify that	Browser should be	Open browser	Browser should be opened			
Cart	when user	installed Internet connection should be	2. Open url	Bluchezz website should			
	clicks on remove from	present		be			
	cart button	User should be logged	3. Type username and	opened user must be allowed to	Website are enemed		
	the item	in	password in		in browser		
	should be			password	successfully. After		
	removed			pacemena	clicking Add to Cart		
	from cart.		log in by clicking the login button	User should be logged in	Successfully	PASS	
			button	After logging in, the home	Producted added.		
				page should be displayed,	successful to adding		
			5. Click on any product displayed	User should be redirected	the same product .		
			on home	to product specification	The item is removed from the cart.		
			page	page.	nom the cart.		
			6. Click on any product displayed	The product page should			
			on home	be			
			7.Click on add to cart for the	displayed. The product should be			
			product.	added to			
				cart.			
			Click on remove from cart button.	The item should be removed			
			button.	form cart.			
TC008:	Verify that	Browser should be	Open browser	Browser should be opened			
Cart	user should	installed Internet	2. Open url	Bluchezz website should			
	be able to	connection should be	2. opo d	be			
	apply	present		opened			
	coupons or	User should be logged in	Enter username and password	user must be allowed to	Website are opened		
	vouchers at checkout			enter their login and	in browser		
	from cart.			password	successfully. After		
	mom oan.		4. Click on login button	User should be logged in	clicking Add to Cart	DAGG	
				After logging in, the home	Successfully	PASS	
				page should be displayed,	Producted added. successful to adding		
			5. Click on any product displayed	User should be redirected			
			on home	to	The vouchers are		
			page	product specification page.	avilable .		
			6. Click on any product displayed	The product page should			
			on home	be			
			page 7. Click on add to cart for the	displayed. The product should be			
			product.	added to			
			<u>'</u>	cart.			
			8. Click on go to cart button.	User should be able to			
				apply cupons or vouchers.			
TC009:	Verify that	Browser should be	1. Open browser	Browser should be			
Cart	items in cart	installed Internet	2. Open url	opened Bluchezz website should			
	should be	connection should be		be			
	present if	present		opened			
	_	User should be logged in	Type username and password in	user must be allowed to	Website are opened		
	and logs in again.	"'	ρασονοία ΙΙΙ	enter their login and	in browser		
	agaiii.			password	successfully. After		
			4. log in by clicking the login	User should be logged in	clicking Add to Cart		
			button	After logging in, the home	Successfully Producted added.	PASS	
				page should be displayed,	successful to adding	FASS	
			5. Click on user name displayed	User profile should be	the same product.		
			on home	displayed.	The items are		
			page.	The product	avilable after logout		
			Click on any product displayed on home	The product page should be	and then login		
			page	displayed.	process.		
			7. Click on add to cart for the	The product should be			
			product.	added to cart.			
			8. Click on Logut button	User is logged out.			
			9. Login again with same userid	The user should be			
			password	logged in and the items			
				shold be present in			
		ı	L	cart.			<u> </u>

Remarks

Reference: Cart TC001

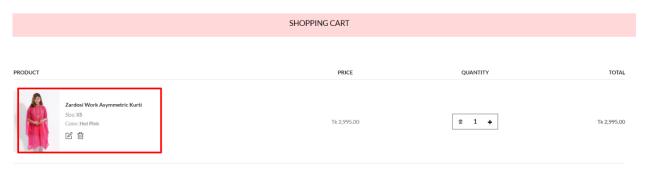


Fig 29: Cart TC001

Reference: Cart TC002

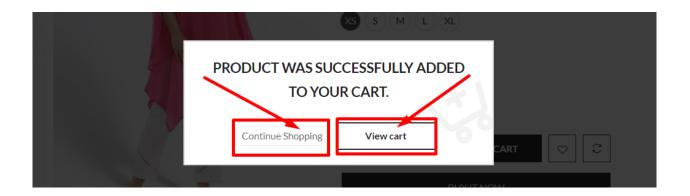


Fig 30: Cart TC002

Reference: Cart TC003



Fig 31: Cart TC003

Reference: Cart TC004

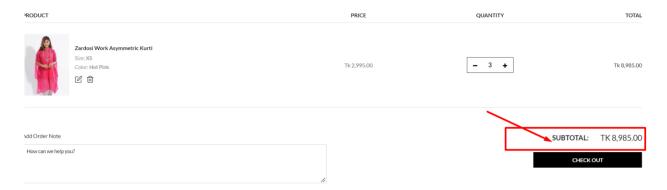


Fig 32: Cart TC004

Reference: Cart TC005

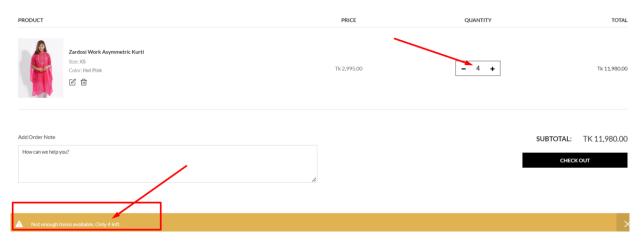


Fig 33: Cart TC005

Test Module: Checkout and Payments

Product Name	https://blucheez.com.bd/	TC Start Date	24/10/2022	TC Execution Start Date	22/11/2022
Module Name	Checkout and Payments	TC End Date	26/10/2022	TC Execution End Date	23/11/2022
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	YES
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Rahman	App (Tested)	

Test Case ID	Test Case	Pre-Condition	Test Data	Test Step	Expected Result	Actual Result	Status	Remarks
TC001: Check out and payments	Verify that payments options	Browser must be launched		Browser must be launched webpage must be	opened			
	applicable for the order should be displayed at	webpage must be opened The user need to log in		opened 3.Type username and	opened user must be allowed to enter their login and password	Website are		
	checkout.			password in 4. log in by clicking the login button	User should be logged in ,page should be displayed, After logging in, the home page should be displayed,	successfuuly opened in web browser. Payment information are avilable in the page.	PASS	
				5. Click on any product displayed on home page	The product page should be displayed.			
				6. Click on add to cart for the product.	The product should be added to cart.			
				7.Click on Checkout button.	The checkout page should be displayed with payments options.			
TC002: Check out and	Verify that delivery	Browser must be launched		Browser must be launched	opened			
payments	details of items should be displayed	webpage must be opened		2. webpage must be opened	opened			
	at checkout.	The user need to log in		3.Type username and password in	user must be allowed to enter their login and password	Website are		
				4. log in by clicking the login button	User should be logged in ,page should be displayed, After logging in, the home page should be displayed,	successfuuly opened in web browser. Payment information are avilable in the page and the	PASS	
				5. Click on any product displayed on home page	The product page should be displayed.	delivery details are also ailable in the page		
				Click on add to cart for the product. 7.Click on Checkout button.	The product should be added to cart. The checkout page should be displayed with delivery details.			
TC003: Check out and payments	Verify that user should get order	Browser must be launched		Browser must be launched webpage must be	Browser should be opened website should be			
	details by message or email.	webpage must be opened The user need to log in		opened	user must be allowed to enter their login and password			
				4. log in by clicking the login button	displayed,	Website are successfuuly opened in web browser. Payment information are avilable in the page.	PASS	
				5. Click on any product displayed on home	The product page should be displayed.	Get an order details of my product via		0-

1			page		mmessage.		
			the product.	The product should be added to cart. The checkout page			
			button.	should be displayed with payments options.			
			the order.	User should get order details by message or email.			
TC004: Check out and payments	Verify that user should be directed to	Browser must be launched	Browser must be launched webpage must be	opened			
	home page after checkout.	webpage must be opened The user need to log in	opened 3.Type	opened user must be allowed			
	checkout.		password in	to enter their login and password	Website are successfuuly opened in		
				User should be logged in ,page should be displayed, After logging in, the home page should be displayed,	web browser. Payment information are avilable in the page. Get an order details	PASS	
			displayed on home page	The product page should be displayed.	of my product via mmessage. User are redirected to the		
			the product.	The product should be added to cart.	home page succesfully.		
			button.	The checkout page should be displayed with payments options.			
			8. Make payment for the order.	Ther order should be confirmed and user should be directed to home page.			
TC005: Check out and	Verify that user should	Browser must be launched	Browser must be launched	opened			
payments	be displayed payment options such	webpage must be opened	opened	website should be opened user must be allowed			
	as Credit Card, Debit Card, Net Banking etc.	The user need to log in	3.Type username and password in	to enter their login and password	Website are successfuuly opened in web browser.		

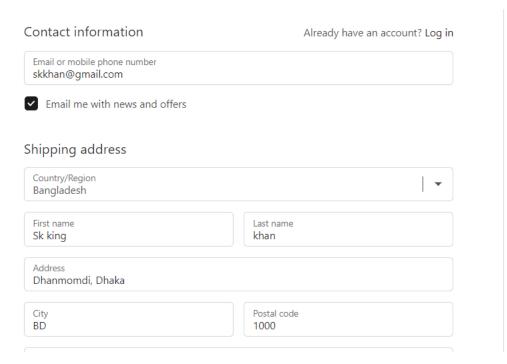
			page 6. Click on add to cart for the product. 7. Click on Checkout button.	displayed, The product page should be displayed. The product should be added to cart. The checkout page should be displayed with payments options such as debit card, credit card, netbanking etc.	Payment information are avilable in the page. There are no option are avilable for Checkout and payments option such as Debit card, Credit Card . Theres are payments options are avilable are for net banking like BKASH	PASS	
TC006: Check out and payments	Verify that if user is not registered then payment should be done as Guest user.	Browser must be launched webpage must be opened The user need to log in		opened website should be opened user must be allowed to enter their login and password User should be logged in ,page should be displayed, After logging in, the home page should be displayed, The checkout page should be displayed with payments options. The payment should be done as guest user.	Website are successfuuly opened in web browser. Payment information are avilable in the page. User can also choose any of the product and can done payments like a guest user.	PASS	
TC007: Check out and payments	Verify that user should be provided with an option to save the payment method.	Browser must be launched webpage must be opened The user need to log in	5. Click on any product displayed on home page 6. Click on any product displayed on home page 7. Click on add to cart for the product. 8. Click on Checkout button. 9. Make payment for the order.	opened website should be opened user must be allowed to enter their login and password User should be logged in ,page should be displayed, After logging in, the home page should be displayed, User should be redirected to product specification page. The product page should be displayed. The product page should be displayed with payments options. the user should be added to cart. The checkout page should be displayed with payments options. the user should be able to save payment method for future orders.	Website are successfuuly opened in web browser. Payment information are avilable in the page. Theres are no option avilable to save the the payments method or details.	FAILL	
TC008: Check out and payments	Verify that session should be timed out if payment is not done for a certain time.	Browser must be launched webpage must be opened The user need to log in	6. Click on any	Browser should be opened website should be opened u Home page should be displayed after logi User should be redirected to product specification page. The product page should be displayed.	Website are successfuuly opened in web browser. Payment information are avilable in the page. Theres are no option avilable to save the the payments method or	FAILL	

				the product. 8. Click on Checkout button. 9. Select payment method and click on pay. 10. Stay on payment page for long time	should be displayed with payments options. Payment page should be displayed.	session for payme	no ent will	
TC009: Check out and	Verify that user details	Browser must launched	be	activity. 1. Browser must be launched	Browser should be opened			
payments	Idisplayed on	webpage must opened The user need to	log in	webpage must be opened Type username and	website should be opened user must be allowed to enter their login and password	Website are successfuuly		

E				4. login by clicking login button	User should be logged in After logging in, the home page should be displayed,	opened in web browser. Payment information are avilable in the page.	PASS	
				5. Click on user name displayed on home page.	User profile should be displayed.	The registered customers detials are avilable on payment		
				6. Click on any product displayed on home page	The product page should be displayed.	page by deafult.		
				7. Click on add to cart for the product.	The product should be added to cart.			
				8. Click on Checkout button.	The checkout page should be displayed with user details.			
TC0010: Check out and payments	Verify that on successful payment email or text	Browser must b launched webpage must b opened		Browser must be launched webpage must be opened	opened			
	message should be delivered to customer	The user need to log	in	3.Type username and password in	user must be allowed to enter their login and password			
	along with unique order number.			4. log in by clicking the login button	should be displayed, After logging in, the	Website are successfuuly opened in web browser. Payment information are avilable	PASS	
				5. Click on any product displayed on home page	The product page should be displayed.	in the page. Customer get delivered text with product order number.		
				6. Click on add to cart for the product. 7. Click on Checkout	The product should be added to cart. The checkout page	number.		
				button.	should be displayed with payments options.			
				8. Make payment.	Order should be confirmed and email or text message should be delivered			
					to customer.			

Remarks

Reference: CP TC001



Reference: CP TC005

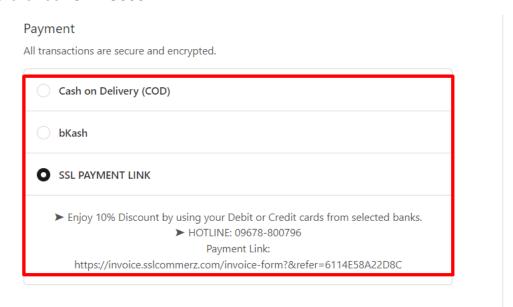


Fig 35: CP TC005

Reference: CP TC009

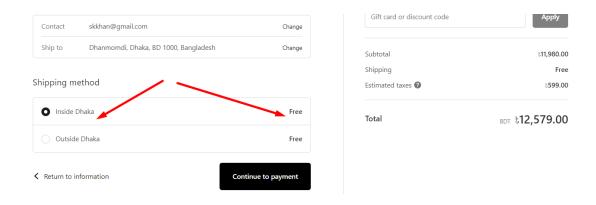


Fig 36: CP TC009

7.5.4 .Acceptance Testing

Test Module: Homepage

Product Name	https://blucheez.com.bd/	TC Start Date	03/11/2022	TC Execution Start Date	24/11/22
Module Name	Homepage	TC End Date	04/11/2022	TC Execution End Date	25/11/22
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	Yes
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Rahman	App (Tested)	

Test Case ID		Pre-Condition	Test Data	Test Step	Expected Result	Actual Results		Remar ks
TC001:	Verify that home page	Browser must be launched	Email:	1 Browser need to be . launched	Browser should be opened			
Homepag e	is displayed after login	webpage must be opened	bitayos943@probd d.com	2 webpage need be . opened	website should be opened			
	or not.	The user must be signed in	Pass: bitayos943	3 Type username and . password in		Browser are opened. Homepage are Displayed after		
				4 The user need to log in . by click the login	displayed,	login.	PASS	
TC002:	Verify that user name	Browser must be launched	Email:	1 Browser need to be . launched	Browser should be opened	Browswe are opened.		
Homepag e	is displayed on home	webpage must be opened	bitayos943@probd d.com	2 webpage need be opened	website should be opened	website should be opened		
	page or not	The user must be signed in	Pass: bitayos944	3 Type username and . password in	user must be allowed to enter their login and password	After entering the credential		
				4 The user need to log in . by click the login	User should be logged in After logging in, the home page should be displayed with useprofile		FAIL	
TC003:	Verify that featured	Browser must be launched	Email:	1 Browser need to be . launched	Browser should be opened	Website are opened successfully		
Homepag e	products are displayed	webpage must be opened	bitayos943@probd d.com	2.2 webpage need be . opened	website should be opened			
	on home page	The user must be signed in	Pass: bitayos945	3 Type username and . password in	user must be allowed to enter their login and password	After entering the credential login successfully.		
				4 The user need to log in . by click the login		Feature products are displayed on homepage	PASS	
TC004:	Verify that Search	Browser must be launched	Email:	1 Browser need to be launched	Browser should be opened			
Homepag e	Functionality is	webpage must be opened	bitayos943@probd d.com	22 webpage need be . opened	website should be opened			
	present on home	The user must be signed in	Pass: bitayos946	Type username and password in .	enter their login and password	Browser are opened. Search Fuctionalaties are		
	page.							
				4 The user need to log in . by click the login	User should be logged in After logging in, the home page should be displayed, Browser should be opened and the Search functionality should present on home page	Displayed after login.	PASS	

TC005:	Verify the home page	Browser launched	must b	e Email:	1 Browser need to be launched	Browser should be opened		
Homepag e	of application on	webpage opened	must b	e bitayos943@probd d.com	2 webpage need be opened	website should be opened		
	different browsers.	The user in	must be signe	d Pass: bitayos947	3 Type username and . password in	user must be allowed to enter their login and password	Homepage are opened successfully as same for diffeent	
					4 The user need to log in . by click the login	User should be logged in After logging in, the home page should be displayed, Browser should be opened and the Search functionality should present on home page and the result will same on different browser		
	Verity the	Browser	must b	e	1 Browsor, pood to be			PASS
	alignment	launched		Email:		Browser should be opened		
Homepag e	on the nome page	webpage opened	must b	d.com	webpage need be opened	webpage need be opened	website should be opened	
		The user in	must be signe	d Pass: bitayos948	3 Type username and . password in	user must be allowed to enter their login and password	After login the Alignment of the products are in proper place in	
					4 The user need to log in . by click the login		the Homepage.	
						User should be logged in After logging in, the home page should be displayed, Browser should be opened and the Search functionality should present on home page and all alignment as per design		PASS
	products	Browser launched		e Email:	1 Browser need to be launched	Browser should be opened		
Homepag e	displayed on home	webpage opened	must b	e bitayos943@probd d.com	2. Open url	2 webpage need be opened		
	page are clickable.	The user in	must be signe	d Pass: bitayos948	3 Type username and . password in	user must be allowed to enter their login and password	The products are	
					The user need to log in by click the login)	displayed on	
						User should be logged in After logging in, the home page should be displayed and the products are clickable		
							User can click the products successfully.	
					5 Click on any product . displayed	User should be redirected to product		
	Vib-H-				on home page	specification page.		PASS
	Verify that when user	launched		Email:	1 Browser need to be launched	Browser should be opened		
Homepag e	clicks on a product, user should be	webpage opened	must b	e bitayos943@probd d.com Pass: bitayos948	2 webpage need be . opened	website should be opened	The products are displayed on	

TC001: Verify that user aunched resection is webpage present on a pened by the pened present on a pened by the webpage present on a pened by the pened		redirected to product specification page.	The user must be signed in			User should be logged in After logging in, the product clicks should work User should be directed to product	homepage are clickable. User can click the products successfully and the products redirected to the product specification page successfully.	
Homepag section or present on present on present on pened and present on pened of the pened of t		Verify that use	Browser must be		on home page 1 Browser need to be	specification page.		PASS
e present on pened webpage need be opened to user must be allowed to enter their login and password in the profile by click the login because the products that displayed and password in the profile by click the login because the products that displayed in enter their login and password in the profile by click the login in the profile by		Ī		Email:		Browser should be opened		
The user must be signed on Pass: bitayos948 The user must be signed on Pass: bitayos948 The user must be signed on Pass: bitayos948 The user need to log in After logging in, the profile solution should present on homepage The profile button is avilable but not working. TCO010: Verify that Browser must be aunched on popened on the profile opened of the profile opened	e	present on						
The profile button is avilable but not working. FAIL TC0010: Verify that Browser aurched be aurched be aurched be bitayos943@probd d.com Page are The user must be signed categorised. Browser are aurched be aurched be aurched be aurched be aurched be bitayos943@probd d.com Page are Categorised. Browser must be signed aurched be aurche		home page.		Pass: bitayos948	. pässword in	enter their login and password	Login successfully after giving	
TC0010: Verify that Browser must be alunched aunched be bitayos943@probd d.com The products that displayed on webpage be opened aunched and com The products that displayed in the products of the products					4 The user need to log in . by click the login		The profile button is avilable but	
TC0010: Verify that Browser must be aunched aunched bitayos943@probd dome bitayos943@probd dome bitayos943@probd dome bitayos943@probd dome dome dome dome dome dome dome dom					5.Click on user name displayed on	User profile should be displayed.		
Hpmepag displayed on webpage must be bitayos943@probd d.com 2 webpage need be opened 3 Type username and password Browser must be allowed to enter their login and Browser must be allowed in Browser must be allowed to enter their login and After logging in, the profile user can find tem in After logging in, the profile in section should present on homepage 4 The user need to log in section should present on homepage 4 The user need to log in section should present on homepage 4 The user need to log in section should present on homepage					home page.			FAIL
page are The user must be signed categorised. Pass: bitayos948 Pass: bitayos948 Pass: bitayos948 Pass: bitayos948 Pass: bitayos948 Pass: bitayos948 The products that displayed in enter their login and password Nomepage are categorised and user can find tem in After logging in, the profile action should present on homepage The products that displayed in enter their login and password Nomepage are categorised and user can find tem in After logging in, the profile action should present on homepage		Ī		Email:		Browser should be opened		
page are The user must be signed categorised. Browser must be aunched Browser must be aunched Browser must be aunched After logging in, the profile ferent different on homepage in the password in the pa	Hpmepag e	displayed oi home	nwebpage must be opened	bitayos943@probd d.com	2 webpage need be opened	website should be opened	The products that	
		page ard categorised.	Browser must be		. pässword in	enter their login and password	homepage are categorised and	
					4 The user need to log in by click the login	User should be logged in After logging in, the profile section should present on homepage	user can tind tem in different	
page should be displayed, products should be categorised.						products	categories.	PASS

Remarks:

Reference: HP TC 001



Fig 37: HP TC001

Reference: HP TC 002



Fig 38: HP TC002

Reference: HP TC 005



Fig 39: HP TC005

Reference: HP TC 009

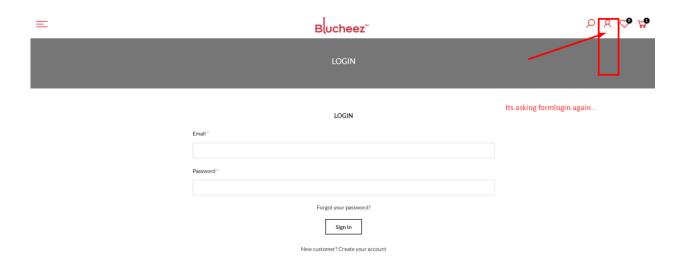


Fig 40: HP TC009

Test Module: Login (Admin)

Product Name	https://blucheez.com.bd/	TC Start Date	05/11/2022	TC Execution Start Date	26/11/22
Module Name	Login (Admin)	TC End Date	06/11/2022	TC Execution End Date	28/11/22
		Test Case Developed By	Shagor Mahmud Shakil	Browser (Tested)	Yes
Developer Name (TL)	Mainuddin	Test Case Reviewed By	Rakib Rahman	App (Tested)	

	Test Case		Test					Rema
D/Name	Description	Precondition	Data	Step Description	Expected Result	Actual Result	Status	ks
FC004. Login	valid email/username	A desire abouted be		1. Navigate to Admin	Admin login none abould onen			
C001: Login	field	Admin should be		Login Panel	Admin login page should open	Admin Louis Donad		
	check	registered in the system.				Admin Login Paged open.		
				Enter the valid username/email	The valid username will be taken	The valid username and		
				username/email	lakeii	are taken.		
				2		are taken.		
				. Enter the Password	the password will be taken	Login successfully.		
				4 . Click on Login	Login should have successfully		PAS S	
	Empty			Navigate to Admin	,		-	
C002: Login	email/username	Admin should be		Login Panel	Admin login page should open			
	field check	registered in the system.				Admin Login Paged are open.		
				2	The username field will return	Trying to login without credential		
				. Keep empty the	error			
				username/email field		and unsuccessfull with showig		
				3				
				. Enter the Password	the password will be taken	error.	DAC	
				. Click on Login	Login should have unsucccessfull		PAS S	
C003: Login	Check login functionality	Admin should be		Navigate to Admin Login Panel	Admin login page should open			
	,	registered in the			3 1 2 3 1 1 1 1 1	Admin Login Paged		
	with invalid email id	system.				Opened.		
				2 . Keep empty the	The username field will return error	Trying login with invalid email		
						and get an error with		
				username/email field		invalid		
				3. Enter the Password	the password will be taken	email message.		
				4 . Click on Login	Login should have unsucccessfull		PAS S	
TC004:	valid password field	Admin should be		Navigate to Admin Login Panel	Admin login nago should onen			
Login	valid password field	registered in the		Login Fanei	Admin login page should open			
	check	system.				Entered the valid		
				O Enter "		username and		
				2. Enter the username/email field	The username will be taken			
						the valid password .		
				3. Enter the Password	the password will be taken	Successfully logged in.		ĺ

			4 . Click on Login	Login should have succcessfull		PAS S	
TC005: Login	Empty password	Admin should be	Navigate to Admin Login Panel	Admin login page should open			
	field check	registered in the system.					
					Trying to login with empty		
			3 Keep the Password . field empty		an error.		
			4 . Click on Login	Login should have unsuccessfull		PAS S	
TC006: Login	Check login functionality	Admin should be	Navigate to Admin Login Panel	Admin login page should open			
	with invalid password	registered in the system.					
			2 Enter the . username/email field	The username field will be taken	Trying to login with invalid		
					password field and get an error.		
			3 Enter the invalid . Password	the password field will return error			
			4 . Click on Login	Login should have unsucccessfull		PAS S	_

Remarks:

Reference: Login TC 002

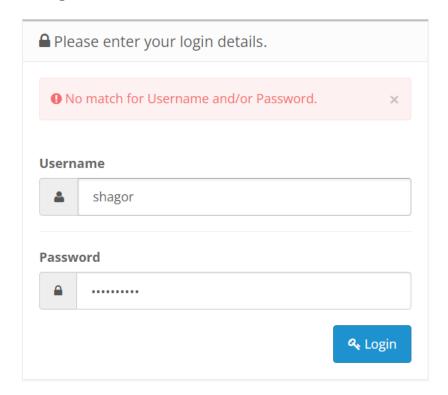


Fig 41: Login TC002

Reference: Login TC 004

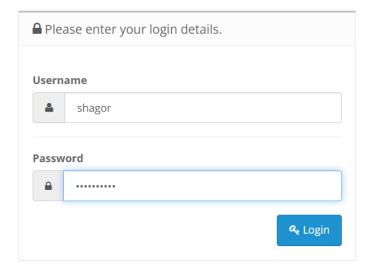


Fig 41: Login TC004

Reference: Login TC 006

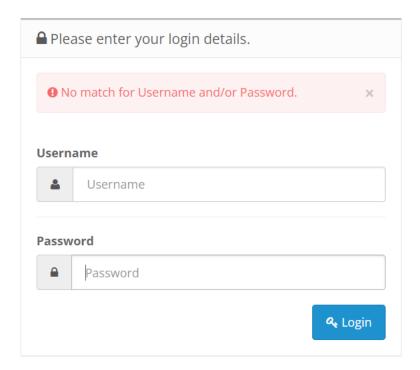


Fig 42: Login TC006

Chapter 8: Automation Testing

8.1 What is Automation in testing?

Humans are trying to develop technology for better opportunities and minimize the risk of dangerous tasks. Nowadays people are so busy so they want the maximum output by giving minimum input and here's the automation comes. Automation is a process of minimum human interaction but the output of that interaction will be the maximum.

So, Automation testing is a process to execute the test automatically by helping of the scripts and tools and following the test automation frameworks.

8.2 Why Automation Testing?

Automation is a very important things in every parts of digital world. Automation makes human work easier. Sometimes its very hard to test manually software requirements and its also can be time-consuming. So, for reduce the time and easy to test the automating test conducted.

Automation testing can be conducted any time of day because in automation the script run and then test done automatically. It can be beneficial for same types of category problem, that can be easily resolve.

Benefits of Automation Testing

- Detailed reporting capabilities
- Improved bug detection
- Simplifies testing
- Speeds up the testing process
- Reduces human intervention
- Saves time and money

Which test need to be Automated

- Test that are repetitive
- Test that are failing for human error
- Test that cant be done in manually
- Test that can take long time to complete in manually

8.3 Web Automation

- Web automation is the process of using software to perform tasks on the web.
 This can include tasks such as filling out forms, clicking links, and extracting data from websites. Web automation is often used to automate repetitive tasks, or to perform tasks that are too complex or time-consuming to be done manually.
- Web automation can be accomplished using a variety of tools and programming languages, such as Selenium, Python, and Java. These tools allow users to write scripts or programs that can interact with websites in a way that is similar to how a human user would interact with them. This can be done by simulating mouse clicks, keyboard input, and other actions that a user might take.
- Web automation can be used for a wide range of purposes, such as data mining, data entry, testing, and web scraping. It is often used by businesses to automate processes and improve efficiency, or by individuals to save time and effort when performing tasks on the web.

Environment Setup

- Installing the Java Development Kit (JDK). This is required to write and run Java programs.
- Installing a Java Integrated Development Environment (IDE). An IDE is a software application that provides tools for writing and debugging code. Some popular Java IDEs include Eclipse and IntelliJ IDEA.
- Installing the Selenium library. Selenium is a popular open-source library for automating tasks on the web.
- Installing a web browser and the corresponding browser driver. Selenium can be
 used to automate tasks in a variety of web browsers, such as Chrome, Firefox,
 and Safari. To use Selenium with a particular browser, we will need to install the
 browser and also install the corresponding browser driver.
- Creating a new Java project in IDE and add the Selenium library as a dependency. WE will also need to add the browser driver executable to our project's class path.

Adding Dependency for Maven

```
1 </xml version="1.0" encoding="UIF-8"?>

■ ✓ ■ Grammars

▼ ille:/C:/Users/DCL/eclipse.

 3⊖cproject xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001

    Binding: xsi:schemaLoc

    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/
                                                                                                       O Cache: false
     <modelVersion>4.0.0</modelVersion>
     <groupId>bluchezz
                                                                                                 > a project
     <artifactId>Bluchezz</artifactId>
     <version>0.0.1-SNAPSHOT</version>
     <!-- FIXME change it to the project's website -->
12
13
     <url>http://www.example.com</url>
14
15⊜
     properties>
       cproject.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
16
       <maven.compiler.source>1.7</maven.compiler.source>
17
       <maven.compiler.target>1.7</maven.compiler.target>
18
19
    </properties>
20
21⊖
    <dependencies>
24 <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
       <groupId>org.seleniumhq.selenium
27
       <artifactId>selenium-java</artifactId>
28
       <version>4.6.0</version>
29 </dependency>
30
```

Fig 43: Dependency1

```
67
           </plugin>
                                                                                             🗸 🛎 Grammars
 689
           <plugin>

✓ 
☐ file:/C:/U

             <artifactId>maven-compiler-plugin</artifactId>
                                                                                                  Bindir
 70
             <version>3.8.0
                                                                                                  Cache
 71
           </plugin>
                                                                                              o xml
 72⊝
           <plugin>
             <artifactId>maven-surefire-plugin</artifactId>
 73
                                                                                            project
 74
             <version>2.22.1
 75
           </plugin>
 76⊖
           <plugin>
 77
             <artifactId>maven-jar-plugin</artifactId>
             <version>3.0.2
 78
 79
           </plugin>
 80⊝
           <plugin>
             <artifactId>maven-install-plugin</artifactId>
 81
             <version>2.5.2
 83
           </plugin>
 849
           <plugin>
            <artifactId>maven-deploy-plugin</artifactId>
             <version>2.8.2
 86
 87
           </plugin>
           <!-- site lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecyc
 88
 89⊝
           <plugin>
             <artifactId>maven-site-plugin</artifactId>
             <version>3.7.1
 91
 92
           </plugin>
 93⊝
           <plugin>
 94
             <artifactId>maven-project-info-reports-plugin</artifactId>
             <version>3.0.0
 96
           </plugin>
97
         </plugins>
       </pluginManagement>
99
     </build>
100 </project>
101
```

Fig 44: Dependency2

```
1 package bluchezz.Bluchezz;
                                                                                                   # bluchezz.Bluchezz
                                                                                                  3 import org.openqa.selenium.WebDriver; ☐
                                                                                                      • 8 webdriver : WebDriver
                                                                                                      start(): void
.0 public class BaseDriver {
                                                                                                      close(): void
      public static WebDriver webdriver;
.3⊖@BeforeSuite
      public void start() {
          WebDriverManager.chromedriver().setup();
.5
.6
          webdriver=new ChromeDriver();
.8 }
.9⊖@AfterSuite
20
      public void close() {
      webdriver.close();
23
25
```

Fig 45: SetBaseDriver

```
. package bluchezz.Bluchezz;
                                                                                                   # bluchezz.Bluchezz
                                                                                                 import org.openqa.selenium.By;

• § baseUrl : String

import org.openqa.selenium.WebElement;
                                                                                                      openUrl(): void
 import org.openqa.selenium.support.ui.Select;
import org.testng.annotations.Test;
                                                                                                      Test1(): void
                                                                                                      • Test2(): void
                                                                                                      • Test3(): void
public class SiteBlucheez extends BaseDriver {
                                                                                                      Test4(): void
                                                                                                      Test5(): void
      public static String baseUrl="https://blucheez.com.bd/";
      @Test (priority=0)
      Run | Debug
      public void openUrl() throws InterruptedException {
          webdriver.get(baseUrl);
          webdriver.manage().window().maximize();
          Thread.sleep(5000);
) // @Test (priority=1)
     public void Test() throws InterruptedException {
          WebElement blucheez= webdriver.findElement(By.xpath("//a[@href='/account/login']"
! //
          blucheez.click();
3 //
          Thread.sleep(5000);
| // }
      @Test (priority=1)
      Run | Debug
      public void Test1() throws InterruptedException {
          WebElement blucheez= webdriver.findElement(By.xpath("//i[@class='las la-search']"
          blucheez.click();
          Thread.sleep(5000);
     }
```

Fig 46: TestExecution1

```
@Test (priority=2)
                                                                                                                                                                                                                                                                                               # bluchezz.Bluchezz
Run | Debug

✓ 

✓ 

✓ 

✓ 

✓ 

SiteBlucheez

public void Test2() throws InterruptedException {
                                                                                                                                                                                                                                                                      5
                                                                                                                                                                                                                                                                                                        • s baseUrl : String
            WebElement blucheez= webdriver.findElement(By.xpath("//select[@name='product_
                                                                                                                                                                                                                                                                                                       openUrl(): void
            Select prodselect= new Select(blucheez);
                                                                                                                                                                                                                                                                                                       • Test1(): void
             prodselect.selectByValue("Men's Clothing");
                                                                                                                                                                                                                                                                                                       Test2(): void
             Thread.sleep(5000);
                                                                                                                                                                                                                                                                                                        Test3(): void
                                                                                                                                                                                                                                                                                                      Test4(): void
                                                                                                                                                                                                                                                                                                        Test5(): void
@Test (priority=3)
public void Test3() throws InterruptedException {
            WebElement blucheez= webdriver.findElement(By.xpath("//body/div[@id='nt_search_ca
             Thread.sleep(5000);
}
@Test (priority=4)
Run | Debug
public void Test4() throws InterruptedException {
            \label{lement_blucheez} WebElement\ blucheez=\ \textit{webdriver}. find Element\ (By.\textit{xpath}("//span[contains(text(),'Add in the contains of the 
             blucheez.click();
            Thread.sleep(5000);
}
@Test (priority=5)
Run | Debug
public void Test5() throws InterruptedException {
            WebElement blucheez= webdriver.findElement(By.xpath("//a[contains(text(),'View ca
             blucheez.click();
            Thread.sleep(5000);
```

Fig 47: TestExecuttion2

8.4 Mobile Automation

Mobile automation refers to the use of software to automatically perform tasks on a mobile device, such as a smartphone or tablet. This can include tasks such as installing and testing mobile apps, performing system updates, and simulating user interactions with the device.

Mobile automation is often used by developers and testers to streamline the process of testing and deploying mobile apps, as it allows them to quickly and easily perform repetitive tasks on multiple devices.

Mobile automation tools can also be used to simulate different network conditions and device configurations, which can be useful for testing the performance and stability of mobile apps under a variety of conditions.

Appium

For automating native, mobile web, and hybrid applications on iOS and Android platforms, we can use the open-source program Appium.. It is a widely used tool for mobile app testing and has support for many programming languages, including Java, Python, Ruby, C#, and more.

Appium works by communicating with the appium server, which in turn communicates with the mobile device using a specific set of commands. These commands can be used to perform actions on the device, such as installing and launching apps, simulating user interactions, and more.

One of the key benefits of Appium is that it allows developers and testers to write tests using the same techniques and frameworks that they would use for web application testing, which can make it easier to create and maintain test scripts. It also supports a wide range of mobile devices and operating systems, which makes it a versatile tool for mobile testing.

Environment setup

Appium Server Gui

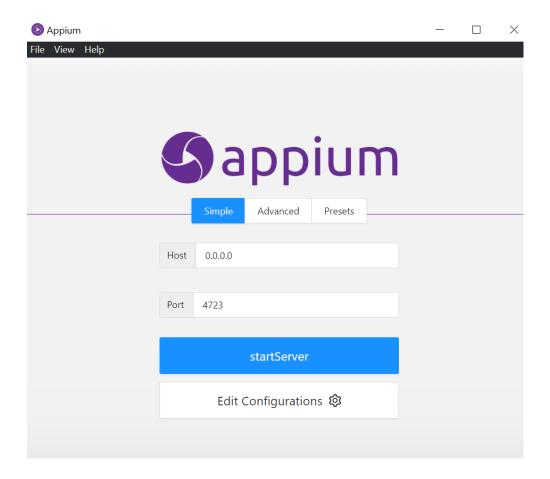


Fig 48: appium

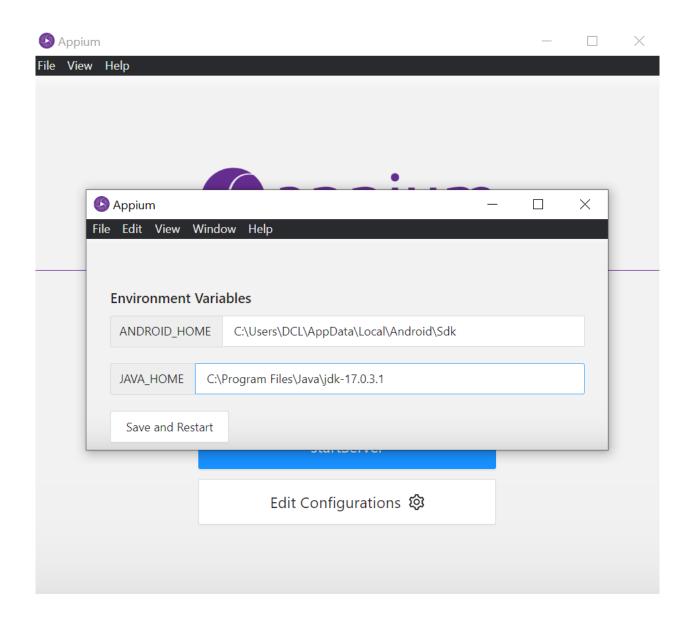


Fig 49: Setting Environment

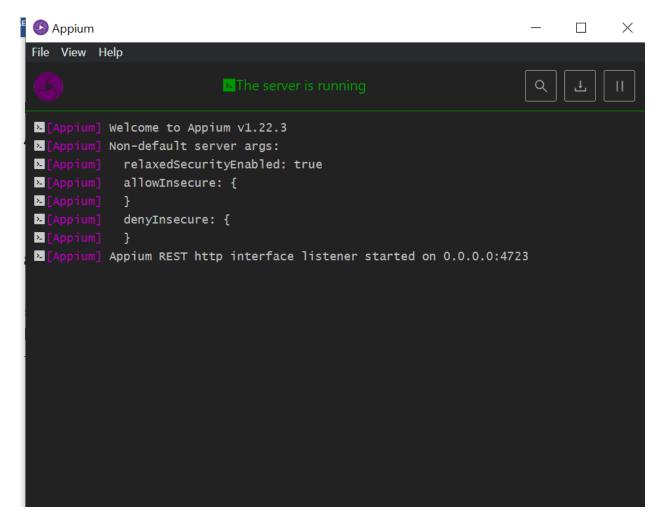


Fig 50: Appium running

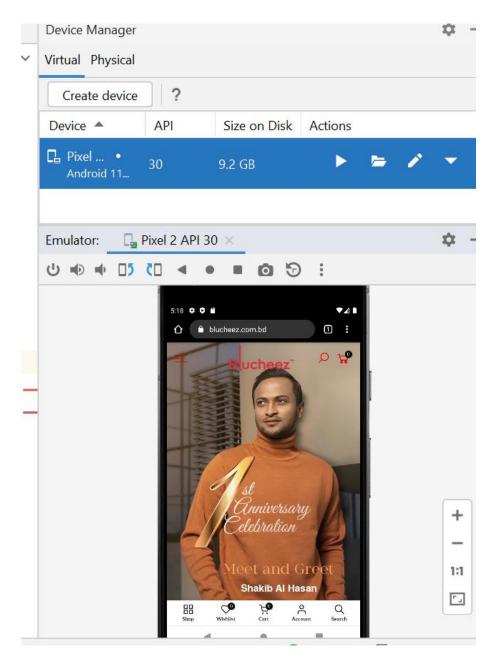


Fig 51: Mobiletest

8.5 Performance Testing

Performance testing is a testing process to test the speed, scalability, reliability, stability, response time and the resource usages of a software application under a particular workload.

There are many types of performance testing:

- Load testing
- Stress testing
- Endurance testing
- Spike testing
- Volume testing
- Scalability testing

Load Testing:

The Load testing is a testing where the test conduct under a particular user load to check the load ability of the software application.

Stress Testing:

The Stress testing is a testing where the test conduct under extreme user load to check the user handling ability of the software application.

Endurance Testing:

The Endurance testing is a testing where the test conduct to ensure that the application can handle the expected load for a long period.

Spike Testing

Spike testing is a testing type where the test done by suddenly increasing extreme load or decreasing the load to determine how software behave.

8.5.1 Performance testing using JMeter

What is JMeter

The Apache JMeter is an open source and java based software application used for performance testing, and load testing of any web application.

Why JMeter

- Free of Cost
- Performance Testing of Applications
- Load Testing and Stress Testing
- Framework
- Graphical Analysis
- Platform Independent

Environment Setup

- Setting up Apache JMeter
- Adding a Thread Group
- Adding HTTP Request
- Adding Listeners
- Running the Test

Setting up Apache JMeter

- 1. Navigate to bin folder inside JMeter folder
- 2. Open the JMeter.bat file
- 3. Double click the .bat file

Fig 52: bat file running

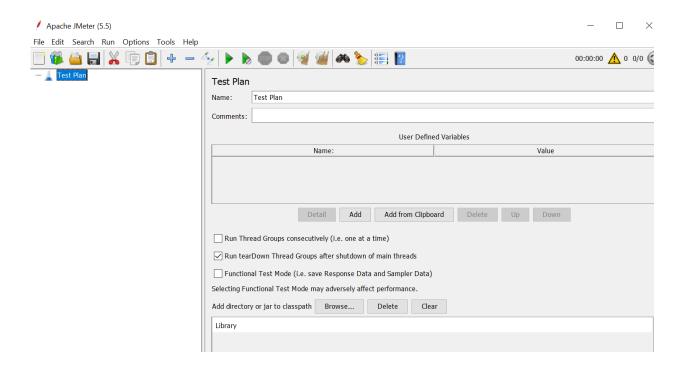


Fig 53: Apache

Adding thread group

- Click on Performance test
- Click add then threads and select thread groups

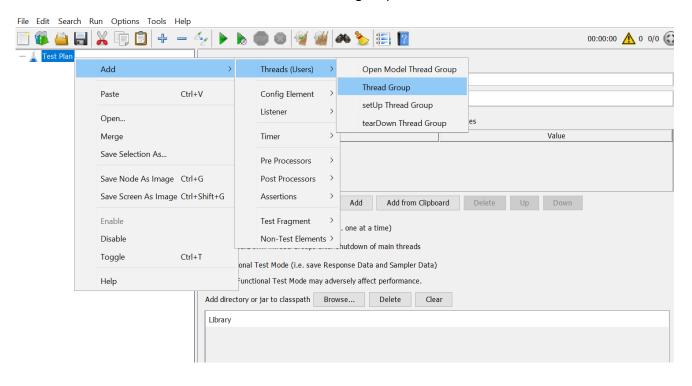


Fig 54: thread group

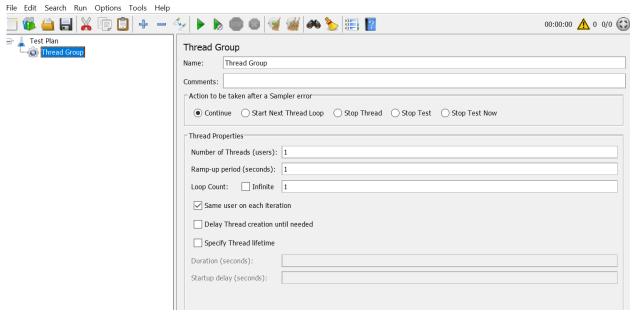


Fig 55: Thread Group

Adding HTTP Request

- Click on Thread group
- Navigate to add option
- Navigate to sampler option
- Now, Select the HTTP request option

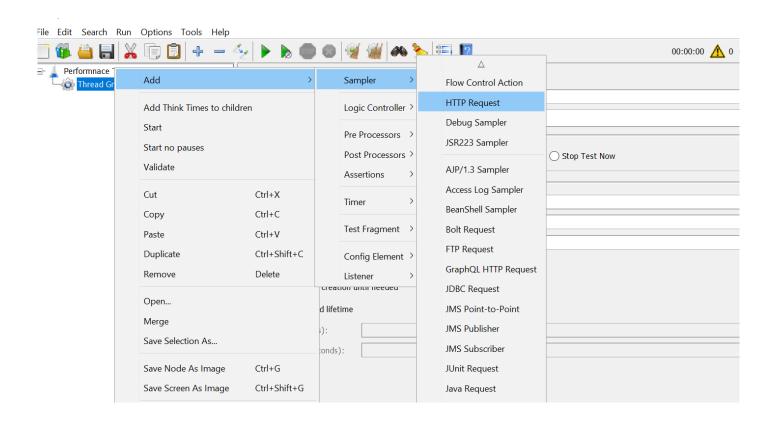


Fig 56: Adding HTTP request

Adding Listeners

- Click on Thread group
- Navigate to add option
- · Navigate to view result select Tree option

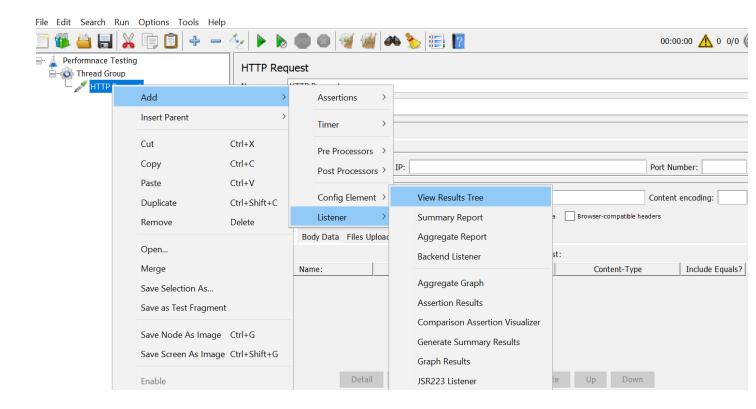


Fig 57: Adding Listeners

Running the Test

- Save the Test
- Now click on run test

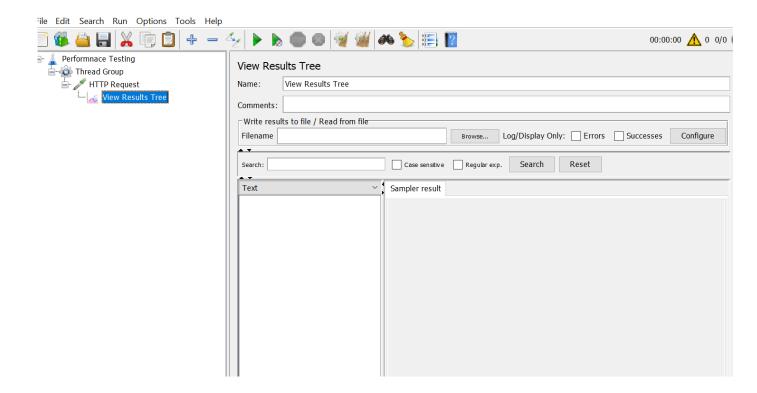


Fig 58: Run test

8.5.1.1 Performance Testing

Criteria:

Number of users: 5000

Time: 86400

Per-Second: 18

So,

Number of Threads: 18

Ramp-up Period: 1

Loop Count: 1



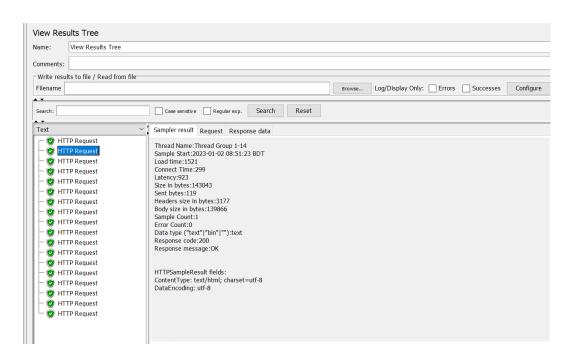


Fig 59: View result Tree

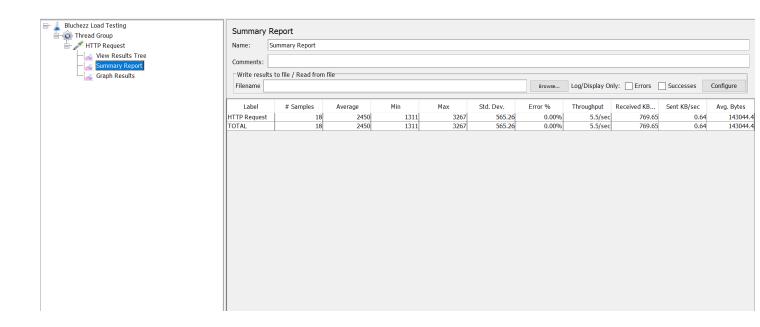


Fig 60: Summary result



Fig 61: Graph Result

Number of Threads: 100

Ramp-up Period: 1

Loop Count: 1

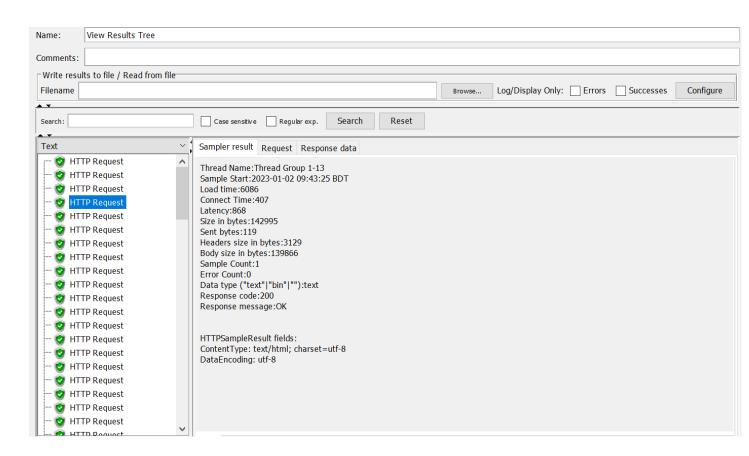


Fig62: View Result tree

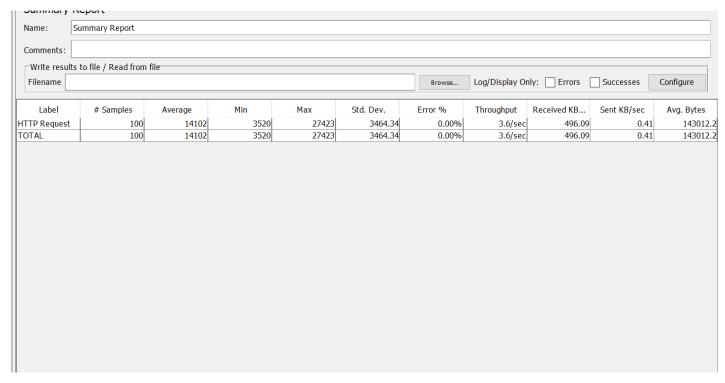


Fig 63: Summary

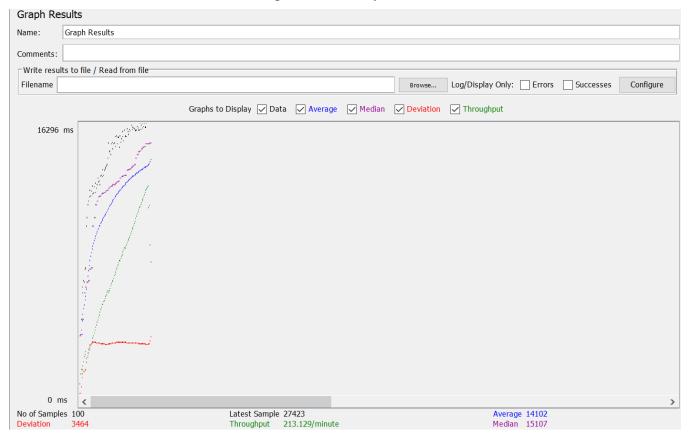


Fig 64: Graph Result

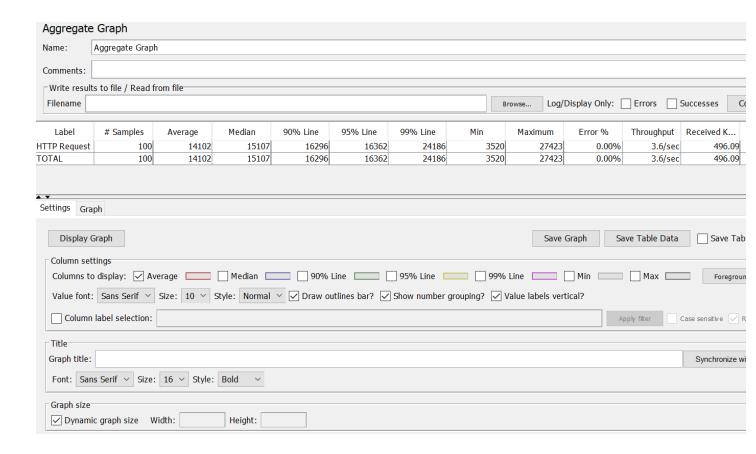


Fig 65: Aggregate Graph

8.6 API Testing

API testing is a testing where the test validates Application program interfaces. The main reason for API testing is to check the functionality, performance and the reliability of that interface. In API testing the tester use software to call the api and can view the response to that call.

Benefits of API Testing

There are several benefits to API testing:

- 1. API testing can ensure that the APIs are reliable and function correctly.
- 2. API testing can help to identify issues such as missing functionality, security vulnerabilities, and performance bottlenecks.
- 3. API testing can be faster and more efficient than GUI testing, as it allows you to directly test the API without going through the user interface.
- 4. API testing can be automated, which can save time and resources.
- 5. API testing can provide visibility into the API and how it is being used, which can help to identify potential problems and improve the API.
- 6. API testing can be used to test the integration of different systems and ensure that they work together as expected.
- 7. API testing can be used to validate the functionality and security of an API before it is released to users.

8.7 API Testing using Postman

Postman is a popular tool for API testing. It allows us to send HTTP requests and view the response.

URL: https://blucheez.com.bd/

End point: Cart

Description: Add product to Cart, Increase item, Decrease item, Delete item.

	EndPointBa se	Body	Status Code	Success Response	Failur Response	Validation	Comments
						pm.test("Status code is 200",	
				r		function () { pm.response.to.have.statu s(200);	
				ៃ "id": 44269840892183,		3(200), });	
				14 : 112000 10002 1000,		pm.test("Added to Cart ",	
				"properties": {},		function () {	
				"quantity": 2,			
				"variant_id": 44269840892183,		pm.expect(pm.response.text ()).to.include	
				"key":		("Zardozi Regular Fit Panjabi");	
				"44269840892183:e7bf428e1ba89965934d 9712c7bf4ec6",		});	
				"title": "Zardozi Regular Fit Panjabi - S/38 / COOL GREY",		pm.test("Body is correct", function () {	
				"price": 499500,		pm.response.to.have.body ("Zardozi	
				"original_price": 499500,		Regular Fit Panjabi");	
							Validation
				"discounted_price": 499500,		});	
Cart_TC_ 001	https://bluch eez.c	id: 44269840892183	200	"line_price": 999000,	Null	pm.test("Content-Type is present",	Passed: 4 Validation
	om.bd/			"original_line_price": 999000,		function () {	
				"total_discount": 0,		pm.response.to.have.head er("Set-	Failed: 2
				"discounts": [],		Cookie");	
				"sku": "BMP-216",		<pre>});</pre>	
				"grams": 0,		pm.test("Response time is less than	
				"vendor": "Blucheez",		200ms", function () {	
				"taxable": true,		V •	
				"product_id": 8075752472855,		pm.expect(pm.response.res ponseTime).t	
				"product_has_only_default_variant": false,		o.be.below(200);	
				"gift_card": false,		});	
				W		pm.test("Successfully	
				"final_price": 499500,		Added", function ()	
				"final_line_price": 999000,		nm reapones to have statu	
						pm.response.to.have.statu s("OK");	
						});	
				{		om.test("Status code is 200", function () {	
				"token": "06fce0c50e23e4a13e9a64d124fe09f3",		pm.response.to.have.statu s(200);	
				"note": null,		});	
						pm.test("Body matches	
				"attributes": {},		string", function	
				"original_total_price": 1997000,		0 {	
				"total_price": 1997000,			

				"total_discount": 0,		pm.expect(pm.response.text ()).to.include	
				"total_weight": 0.0,		("Zardozi Regular Fit Panjab");	
				"item_count": 6,		});	
				"items": [pm.test("Content-Type is present",	
				{		function () {	
				"id": 44269840892183,		pm.response.to.have.head er("Content-	
		(:		"properties": {},		Type");	
		{"id":"4426984089 2183:e7					Validation
	https://bluch	bf428e1ba899659		"quantity": 3,		});	
Cart_TC_	eez.c	34d9712				pm.test("Response time is	Passed: 5
002	om.bd/	c7bf4ec6","quantit y":"3","s	200	"variant_id": 44269840892183,	Null	less than	Validation
	<u>om.ba/</u>	y . o , s		"key":		200ms", function () {	validation
		ections":"cart_js"}		"44269840892183:e7bf428e1ba89965934d			Failed: 1
				9712c7bf4ec6",			
				"title": "Zardozi Regular Fit Panjabi - S/38 / COOL GREY",		pm.expect(pm.response.res ponseTime).t	
				"price": 499500,		o.be.below(200);	
				"original_price": 499500,		}) ;	
				"discounted_price": 499500,		pm.test("Status code name has string",	
				"line_price": 999000,		function () {	
				"original_line_price": 999000,		pm.response.to.have.statu s("OK");	
				"total_discount": 0,		}) ;	
				"discounts": [],		pm.test("Body matches string", function	
				"sku": "BMP-216",		() {	
				"grams": 0,			
				"vendor": "Blucheez",		pm.expect(pm.response.text ()).to.include	
				{ "taxable": true,		("id");	
				"token": "06fce0c50e23e4a13e9a64d124fe09f3",			
				"note": null,			
				"attributes": {},			
				"original_total_price": 998000,			
				"total_price": 998000,			
				"total_discount": 0, "total_weight": 0.0,			
				"item_count": 4,			
				"items": [
				{		pm.test("Status code is 200", function () {	
				"id": 44269412483351,		pm.response.to.have.statu s(200);	
				"properties": {},		});	
						pm.test("Response time is	Validation
				"quantity": 0,		less than	Passed: 2

Cart_TC_ 003		("id":"4426984089 2183:e7bf428e1ba 89965934d9712c7 bf4ec6","quantity": 0,"sections":"cart_j s"}	200	"variant_id": 44269412483351,	Null	200ms", function () {	
	om.bd/						Validation
				"key":			
				"44269412483351:8f9b4b2fe4c67248936a c24418adf7ae",		pm.expect(pm.response.res ponseTime).t	Failed: 1
				"title": "Zardozi Regular Fit Panjabi - S/38 / CREAM		o.be.below(200);	
				WHITE",		});	
				"price": 379500,			
				"original_price": 379500,			
				"discounted_price": 379500,			
				"line_price": 759000,			
				"original_line_price": 759000,			
				"total_discount": 0,			
				"discounts": [],			

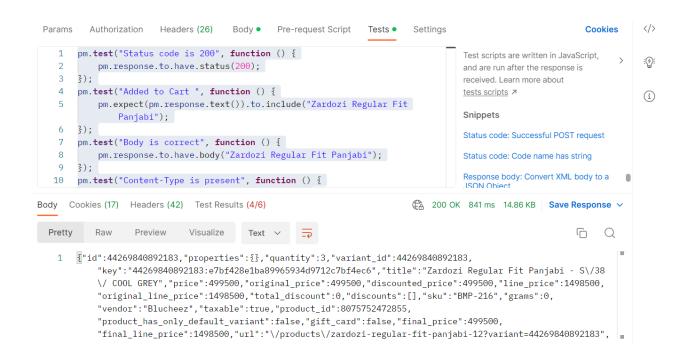


Fig 66: Cart add

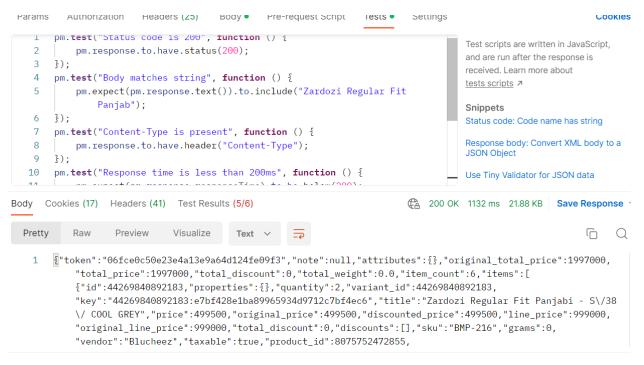


Fig 67: Cart increase

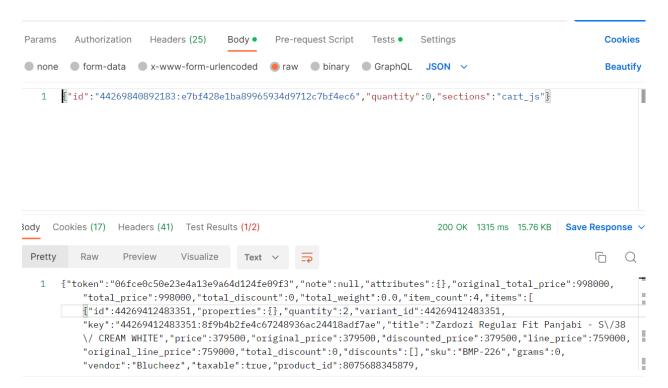


Fig 68: Cart Remove

URL: https://blucheez.com.bd/

End point: Checkout

Description: Edited Checkout Information

TestCas eld	EndPointB ase	Body	Status Code	Success Response	Failur Response	Validation	Comments
		{"sessionToken":"SmpPc212R0N RMmhXcExGMGw1eGw3T 1E4TE9SaTZVd3d0TXhPZE1aV2 hBSUNnZ2ZJMXdyeGRTWIU xUkZ2N0IRZ3IzYnVNdUplcXhzQ WhVSmNoVVVIVkICbE4zclir UTkrSIFyd3BUQXhLeVIZNS9TM mhPU2dORWo0dzNxTGR3N y9FRjJTait2QTNJVGtYdStNL2JyT 2tMN09OcE5tSnpiWlcvKy9 QTINtTE4xYzBEaDIRTIF1OUo0Q zh3c0hPSWNGenBrcHpCSk FiZFF2RIpOdjRqOS9Ydkc5UUFv QU5YeUpwVUISbzRQVEZEZ mxINS9nL2Q0R0dycG81NkcvUV JQV2JaSVIUamVoLS00T29j cCtDRjdxTIJmOVVFLS1OdVBYa 21CSjZxeDI1TmltY3p3SVVnP T0"),"queueToken":"AtgwT591uD 53mxbRU73zVST877tMT VCINBOS01ifQnneuuTYxmvJWI EYfjWhcBNPsYBjBTedgKbmaLekkRJmdW8TvtHs28AyW 746gQu3-u0qNEzfPazPw7P4F2DC8DN1-RCQEWqis9mAXNPmawcDhY9G TdV0OvnxnQFmRXwa6dR wGzikf2AA=="		"data": { "session": { "negotiate": { "typename": "NegotiationResultPayload", "result": { "queueToken": "Ar09XjOMYHwrL0_vciEth_ngLFCLe NmkcK9PQ6YNuGg1U- xbyhwjixWYSpOgZunSvedUGxMGX	Null	pm.test("status coop is 200", pm.response.to.have.status(200); }); pm.test("Name Validation", function () { pm.expect(pm.response.text()).to. include("Shagor"); }); pm.test("firstName", function () { pm.expect(pm.response.text()).to. include("Shagor"); }); pm.test("lastName", function () { pm.expect(pm.response.text()).to. include("Mahmud"); }); pm.test("city", function () { pm.expect(pm.response.text()).to. include("dhaka"); }); pm.test("countryCode", function () { pm.expect(pm.response.text()).to. include("BD"); }); pm.test("phone Number Validation", function () { pm.expect(pm.response.text()).to. include("01764523102"); pm.test("currencyCode", function () { pm.expect(pm.response.text()).to. include("BDT"); }); pm.test("currencyCode", function () { pm.expect(pm.response.text()).to. include("BDT"); });	Validation Passed: 9

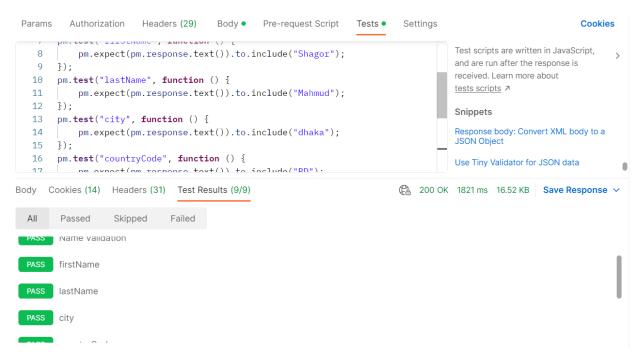


Fig 69: Checkout

8.8 Security Testing

Security testing is an important process that helps identify vulnerabilities and weaknesses in a system or application that could be exploited by attackers. By performing security testing, organizations can take steps to prevent or mitigate the risks associated with these vulnerabilities, such as data breaches, unauthorized access, and other security incidents.

Why security testing is needed:

- Protecting sensitive data: Security testing helps ensure that sensitive data, such as customer information and financial data, is properly protected and not exposed to unauthorized parties.
- Maintaining customer trust: Customers expect their personal and financial information to be secure when they transact with an organization. Security testing helps build trust by demonstrating that the organization takes the security of its systems and applications seriously.

- Complying with regulations: Many industries are subject to regulations that require organizations to maintain certain security standards. Security testing can help organizations ensure that they are in compliance with these regulations.
- Protecting the organization's reputation: A security breach can have serious consequences for an organization's reputation, potentially leading to lost customers, damage to the brand, and legal liabilities. Security testing can help prevent such breaches from occurring.
- Protecting the organization's assets: Security testing helps protect the organization's assets, including its data, systems, and infrastructure, from being compromised by attackers.

Gathering Info About Domain

Logged At û	Not Before	Not After	Common Name	Matching Identities	Issuer Name
2022-12-27			blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-12-27			blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
					C=US, O=Let's Encrypt, CN=R3
2022-12-26					C=US, O=Let's Encrypt, CN=R3
2022-10-28			blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-10-28	2022-10-28	2023-01-26	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-10-27	2022-10-27	2023-01-25	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-10-27	2022-10-27	2023-01-25	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-08-29	2022-08-29	2022-11-27	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-08-29	2022-08-29	2022-11-27	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-08-28	2022-08-28	2022-11-26	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-08-28	2022-08-28	2022-11-26	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-06-30	2022-06-30	2022-09-28	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-06-30	2022-06-30	2022-09-28	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-06-29	2022-06-29	2022-09-27	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-06-29	2022-06-29	2022-09-27	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-05-01	2022-05-01	2022-07-30	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-05-01	2022-05-01	2022-07-30	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-04-30	2022-04-30	2022-07-29	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-04-30	2022-04-30	2022-07-29	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-03-02	2022-03-02	2022-05-31	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-03-02			blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-03-01					C=US, O=Let's Encrypt, CN=R3
2022-03-01	2022-03-01	2022-05-30	www.blucheez.com.bd	www.blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-01-01	2022-01-01	2022-04-01	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2022-01-01			blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2021-12-31					C=US, O=Let's Encrypt, CN=R3
2021-12-31					C=US, O=Let's Encrypt, CN=R3
2021-11-02			blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3
2021-11-02	2021-11-02	2022-01-31	blucheez.com.bd	blucheez.com.bd	C=US, O=Let's Encrypt, CN=R3

Fig 70: DInfo

Scanning for Potential risky information

```
23.227.38.65
arget IP:
arget Hostname:
                            blucheez.com.bd
arget Port:
tart Time:
                            2023-01-09 19:27:08 (GMT-5)
erver: cloudflare
ncommon header 'x-dc' found, with contents: gcp-asia-southeast1,us-central1,gcp-us-central1
ncommon header 'x-redirect-reason' found, with contents: https_required
ncommon header 'x-shardid' found, with contents: 278
ncommon header 'x-shalla 'vound, with contents: h3=":443"; ma=86400, h3-29=":443"; ma=86400
ncommon header 'report-to' found, with contents: {"endpoints":[{"url":"https:\/\a.nel.cloudflare.com\/report\/v3?s=eyphBmN1EniwjUqsIIgU7btJMpvkDrdU6xL2uqUswvyeLKpYdq91fHlYLvDt8T1u6q0T
g7Kc9%2BvzFBgUUcfhnJAlL4ULk9JplIgTtiaMweo7FnJao128gmvIAdAmw%3D%3D"}], "group":"cf-nel", "max_age":604800}
ncommon header 'nel' found, with contents: {"success_fraction":0.01, "report_to":"cf-nel", "max_age":604800}
ncommon header 'server-timing' found, with multiple values: (processing;dur=13, db;dur=5, asn;desc="138192", edge;desc="SIN", country;desc="BD",cfRequestDuration;dur=245.000124,) ncommon header 'x-storefront-renderer-rendered' found, with contents: 1
ncommon header 'x-shopid' found, with contents: 58500776131
ncommon header 'x-sorting-hat-podid' found, with contents: 278
ncommon header 'x-shopify-stage' found, with contents: production
ncommon header 'x-sorting-hat-shopid' found, with contents: 58500776131
ncommon header 'x-request-id' found, with contents: 160f40ed-f650-4d21-b39e-3ded3399ac61
oot page / redirects to: https://blucheez.com.bd/
o CGI Directories found (use '-C all' to force check all possible dirs)
ncommon header 'x-alternate-cache-key' found, with contents: cacheable:5b881f1398bd0e59efab9088b075f33e
ncommon header 'x-cache' found, with contents: miss
ookie localization created without the httponly flag
ookie _tracking_consent created without the httponly flag
ookie _y created without the httponly flag
ookie _s created without the httponly flag
ookie _shopify_y created without the httponly flag
ookie _shopify_s created without the httponly flag
ookie _shopify_m created without the httponly flag
ncommon header 'x-shopify-generated-cart-token' found, with contents: 4690dc5b86a20801dd1b0be73d43bba5
```

Fig 67: potential risk

Scanning for open Port

```
— (**not ♥ Windows*7) - [/home/khan]
— " nmap blucheez.com.bd
tarting Nmap 7.92 ( https://nmap.org ) at 2023-01-09 19:12 EST
map scan report for blucheez.com.bd (23.227.38.65)
sot is up (0.0225 latency).

DNS record for 23.227.38.65: myshopify.com
ot shown: 996 filtered tcp ports (no-response)

ORT STATE SERVICE
0/tcp open https
43/tcp open https
880/tcp open http-proxy
443/tcp open http-salt
map done: 1 IP address (1 host up) scanned in 5.83 seconds
— (**soot ♥ Windows*7) - [/home/khan]
— "** nmap s≤ p=1-80 — max=rtt-timeout 4 blucheez.com.bd
tarting Nmap 7.92 ( https://nmap.org ) at 2023-01-09 19:16 EST
map scan report for blucheez.com.bd (23.227.38.65)
sot is up (0.00638 latency).
DNS record for 23.227.38.65: myshopify.com
ot shown: 79 filtered tcp ports (no-response)
ORT STATE SERVICE
0/tcp open http

map done: 1 IP address (1 host up) scanned in 1.88 seconds
```

Fig 68: Open port

Chapter 9: Reporting

Reporting is very important for testing purpose. The Reporting refers to the process of documenting and communicating the results of a testing process. This typically includes creating a report that summarizes the testing that was done, the results that were achieved, and any issues or defects that were identified. The purpose of reporting in testing is to provide stakeholders with a clear and concise understanding of the quality of the product or system being tested, as well as any areas that need to be improved. It can also help to identify trends and patterns in the testing data, which can inform decision-making and help to prioritize future testing efforts.

9.1 Manual Testing Report

Manual testing is a testing process in which a tester manually executes test cases without the use of automation tools. In manual testing, the tester manually enters input, verifies output, and checks that the product or system being tested is functioning as expected. This type of testing is typically used to validate that the product or system meets the specified requirements and to identify defects or issues.

All Manual reports are submitted in previous chapter.

9.2 Automation Testing Report

Automation refers to the use of technology to perform tasks without the need for human intervention. In the context of testing, automation refers to the use of software tools or scripts to execute test cases and check the functionality of a product or system. Automated testing is typically used to test the functionality of an application or system, as it allows tests to be run quickly and accurately, without the need for manual intervention.

9.2.1 Performance Testing1



Fig 71: Summary

We can see that the Fail Rate for threads 20 is 3.15% so its not so good.

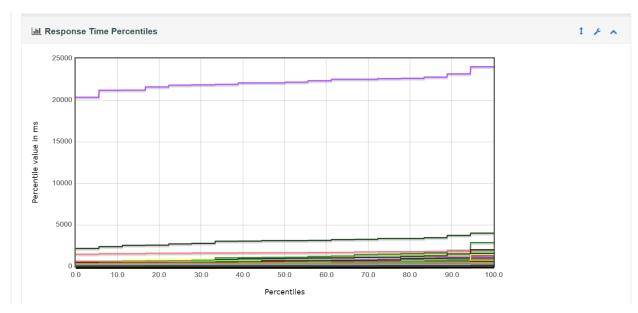


Fig 72: Response time

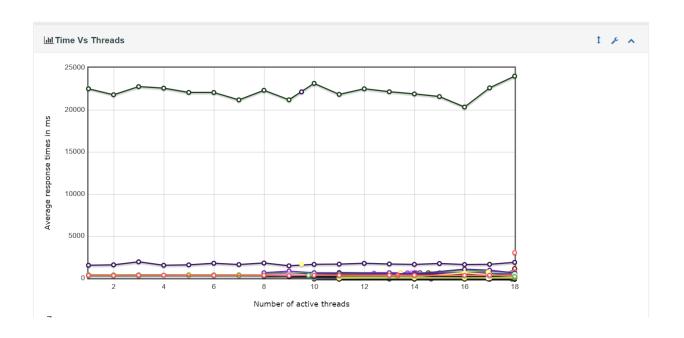


Fig 73: Time vs Threads

9.2.2 Performance Testing2

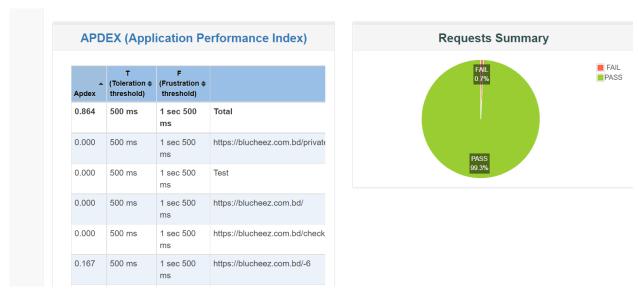


Fig 74: Summary

As we can see that the Fail rate for 20 threads is 0.7% that means that it can handle 7 user in per second .

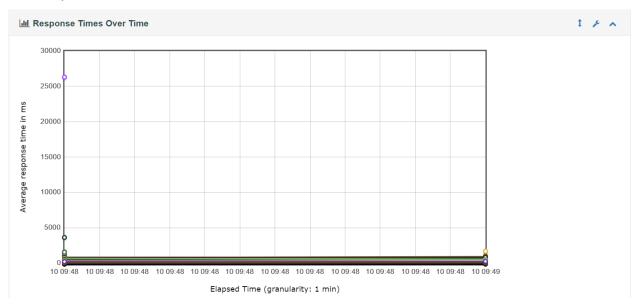


Fig 75: Response time

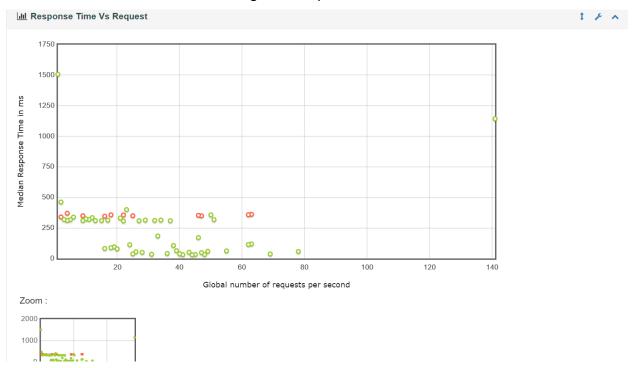


Fig 76: Response and Request

Chapter 10: Critical Appraisal and Evaluation

10.1 Objective that could be met with Manual Testing

- Verifying that the product or system functions as expected under different conditions and scenarios.
- Identifying defects or issues that may not be detectable through automated testing.
- Evaluating the usability and user experience of the product or system.
- Testing the product or system from the perspective of an end user.
- Providing feedback on the product or system to developers and other stakeholders.

Achievement rate and others:

Well, I have performed all types of required Manual testing for this project and the project has a 100% success rate.

10.2 Objective that could be met with Automation Testing

- Validating the functionality of the product or system.
- Ensuring that the product or system meets the specified requirements.
- Identifying defects or issues in a timely and efficient manner.
- Executing a large number of test cases in a short period of time.
- Reducing the reliance on manual testing, which can be time-consuming and prone to human error.

Achievement rate and others:

The project has two parts manual and automation testing. In Web the project has a 100% success rate.

10.3 Objective totally not met

Well the project has met all the objectives that was required.

Chapter 11: Critical Appraisal and Evaluation

11.1 Pre-project Review Closing

For Completing the project i have followed a predefined structure like

- project proposal submitting,
- project title defense,
- Testing and
- Documentation

11.2 What I have Learned

Throughout the project, I have learned many things like

- The importance of Email
- How to apply with the Email
- How to behave in a Corporate Office
- Manual Testing
- Automation Testing
- Documentation

11.3 The problems I have faced

I have faced some problems like, there are so many it companies in Dhaka but most of them are not that much serious with the Testing process. There are so many companies that don't follow the structure. they don't have any track or documents that they are working on it. When I have a task for API test and asked for the documentation but they didn't documented the API. There are so less Testers in the companies because they don't want pay money for their benefits. When I was working with this projects I didn't find any types sample reports that I can follow in the internet.

11.4 What solution Occurred

If there is a problem there is a solution. I have collected it Manually and for others problem I have followed all types of mini blog or resources that are related to my project. Talked with the people and My Course teacher or project coordinator who helped me by giving advised.

Chapter 12: Conclusion

12.1 Summary of the project

Blucheez is a Clothing brand that are focused on Comfortable Design. Its want to improve their website Quality and want engage more people through the user friendly interface. To improve the interface and modules I have conducted manual and automation testing to ensure that test will identify the defects or issue in the system and it will help to improve the Quality, Reliability and Security.

12.2 Goal of the Project

Software testing is an important part of the software development process, as it helps to ensure the quality and reliability of the final product.

- Identifying defects or issues in the product or system.
- Verifying that the product or system meets the specified requirements.
- Ensuring that the product or system is fit for its intended purpose.
- Providing stakeholders with information about the quality and reliability of the product or system.
- Improving the overall quality and reliability of the product or system.

12.3 Success of the Project

A project can be considered successful when it meets or exceeds the defined goals and objectives. In general, a successful project is one that is completed on time, within budget, and meets the specified requirements and quality standards. This project has met the user requirements and complete in time.

12.4 What I have done in the Documentation

I have done all task that was needed to complete the project like:

- Verifying that the site is easy to navigate and that users can find products and information easily.
- Ensuring that the site is optimized for mobile devices and responsive on different screen sizes and devices.
- Validating that the site's shopping cart and checkout process are smooth and efficient.
- Testing the site's payment gateway and other financial transactions to ensure that they are secure and accurate.
- Checking that the site's search functionality is effective and returns relevant results.
- Testing the site's performance and scalability to ensure that it can handle a large number of users and transactions.
- Ensuring that the site is protected against security threats, such as hacking and data breaches.

12.5 Value of the project

Software testing is needed in every system because without software testing no software is secure. Software testing can save any individuality from a great loss.

12.6 My experience

I have gain so many knowledge so my knowledge was zero in software testing but due to the internship program I have learned many things and make connection with so many industrious people. Overall it was a great experience.

Appendix A

Manual Testing

Input:

- Validation the data fields with data that don't match with the System specification.
- Validation the data fields and validate the correct input.
- The data type and range that shouldn't accepted.
- Checking invalid data responses in data fields.

Output

- The invalid types of data are get accepted without any data validation or confirmation.
- Incorrect input are getting rejected.
- Getting message that are shown that the input data in data fields are incorrect.

Some sample Test Cases:

Empty field Response
 Informat data as input
 Range of input data
 Test Case 001
 Test Case 012

Appendix B

Automation Testing

Test:

- Need to Check the Web Compatibility with different Browser
- Validation the registration with the valid information
- Login into the account with the credential
- Complete the product full order process

Result:

- The system is compatible with different Browser
- Registration completed with valid information with no error
- Logged in successfully with no error
- Completed the product order

Sample:

Chrome Browser Fig 75: Result For Chrome Firefox Browser Fig 76: Result For Firefox

Internet Explore Fig 77: Result For Internet Explore

Test result for Chrome



Fig 77: Result For Chrome Browser

Test result for Firefox



Fig 78: Result For Firefox Browser

Test result for Internet Explore



Fig 79: Result For Internet Explorer Browser

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