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Project

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This Project report has been submitted in fulfillment of the requirements for the Degree of
Bachelor of Science in Software Engineering.

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APPROVAL

This **project** entitled on “GarmentsCenterBD”, submitted by **Showaive Hossain (ID: 173-35-263)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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DECLARATION

I hereby declare that I have been done this project under the supervision of Syeda Sumbul Hossain, Senior Lecturer, Department of Software Engineering, and Daffodil International University. I also declare that this project or any part of this is unique and has not been submitted elsewhere for the award of any degree.

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ACKNOWLEDGEMENT

At first, I am proud that I did well towards the end of my semester. I am very pleased with Allah. At starting of university life, I learned about software development from my honorable teachers. And I also study computer science-related course from my teachers. My course mates also help me to complete all the courses. Teachers teach in all subjects related to software, apart from our policies and ethics. I am very proud of my family, because they give me this opportunity. They are always with me. I am grateful to my supervisor Syeda Sumbul Hossain. Today I have been able to complete this project through his guidance. It was through her guidance that I was able to move forward. She supports me a lots of for successful end of this projects (GarmentsCenterBD).

Project Summary

There are many garments in Bangladesh. But we do not know what type of product a garments makes. And also we do not know what the price of a garments product is. Sometimes people do not know how to export product from the garments and everyone cannot contact with garments manager. That's why I decide to make this project, so that everyone can make it easily. Every software development industry follow some rules and technique for development every software. I also followed some rules and technique from there. I complete every way of implement this project by following agile method. I chose this method because I thought this the best way to implement my project "GarmentsCenterBD".

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CHAPTER 1: INTRODUCTION

1.1 Project Overview

The project “GarmentsCenterBD” I created it to innovate of the business. So that everyone can buy as they like. There are some middle class traders who can't buy products from big garments if they want. This project owes a lot to them. They can easily import products from here at any time. It will be open to all traders in the country. Everyone can buy from here.

There will be a feature called stock lot. Where retailers can easily sell their wares. If retailers can't sell their product for any reason, they can easily sell it here. This site is very easy to use. Everyone can use it very easily. Because this site has user friendly interface.

There are many e-commerce sites in Bangladesh. But nothing can be done for business purposes from there. But my site is a complete trading platform. Where everyone can not only buy, but also sell. That will be a trusted site. Everyone's products will be delivered on time and in the right place. The slogan will “Give us a chance, to protect your trust”.

1.2 Project Purpose

“GarmentsCenterBD” The purpose is to break the old system of business into a new one. The needs of the traders are to be readily available and easily accessible to all. There is a user friendly interface so that everyone can use it. Secure and reliable business site.

Functionalities provided by “GarmentsCenterBD”

- An open business site in online
- better user experience
- Fresh User Interface
- Everybody in this platform
- Anyone can sell and buy
- Delivery of products safely after order

1.2.1 Background

Based on some E-commerce site, I want to make a user friendly environment, which will help the customer and all user from their satisfactory level. Here users can buy products of their choice and sell even if they have something to sell. A beautiful online platform has been created for easy buying and selling.

1.2.2 Benefits & Beneficiaries

This system will be helpful for garment traders who are looking for an easy to use and reliable system. I mentioned some features:

- This system will help traders to do business remotely
- This system stores data of all users and products
- Authorized users can access from anywhere
- All users will get a simple user interface
- Reduce office management and manpower costs

1.3 Stakeholders

Individuals or organizations who are directly involved in the project, After the implementation of the project, those who can use it to have a positive or negative impact are all one of the stakeholders.

There are 2 types of stakeholder in this project:

1.3.1 Administrators

The admin who can control the whole system. Who can add new product. Admin can also delete a product from the system. He can edit product details. Admin can approve the orders. He can cancel the orders. He can update the all product in formation. He can manage whole system progress.

1.3.2 Customers

All the user can visit the system. But only registered customer can view the details of product. Only they can order the product. Unregistered customer can not order the product. After ordering the product customer must be sent the email or phone number to admin. And the admin will be mail back.

1.4 Modules of GarmentsCenterBD

- Registration: To manage user in the system
- Login: User Authentication
- Product Module: To manage all product in the system
- Order Module: Manage the order system

1.4.1 Focused Modules

- **Registration:** interested person who want to login the system must be complete the registration part. A person can be registered by using email and password. The user name and password will be saved in database.
- **Login:** After inserting the correct credential, user can log in to the system. User can select available product from the system. And they can order them from the system. In login page, if the user give wrong credentials they can not login to the system.
- **Product:** In the home page the user can see all the product which are available for order. They can select from them which they need to buy. Selected product can be order by user.
- **Oder:** For ordering the product the user must be select product from the system. Than they can order those product giving by mobile number or email.

1.5 Project Schedule

I have to finish the project in a short time, so I made a time list. This is the most important one. It helps a lot to finish the job on time.

1.5.1 Gantt chart

Gantt chart, which is a tool of controlling production time. It plays a very important role in completing the task at the appointed time. Any kinds of developing site it used mostly. And I am also make one for my project:

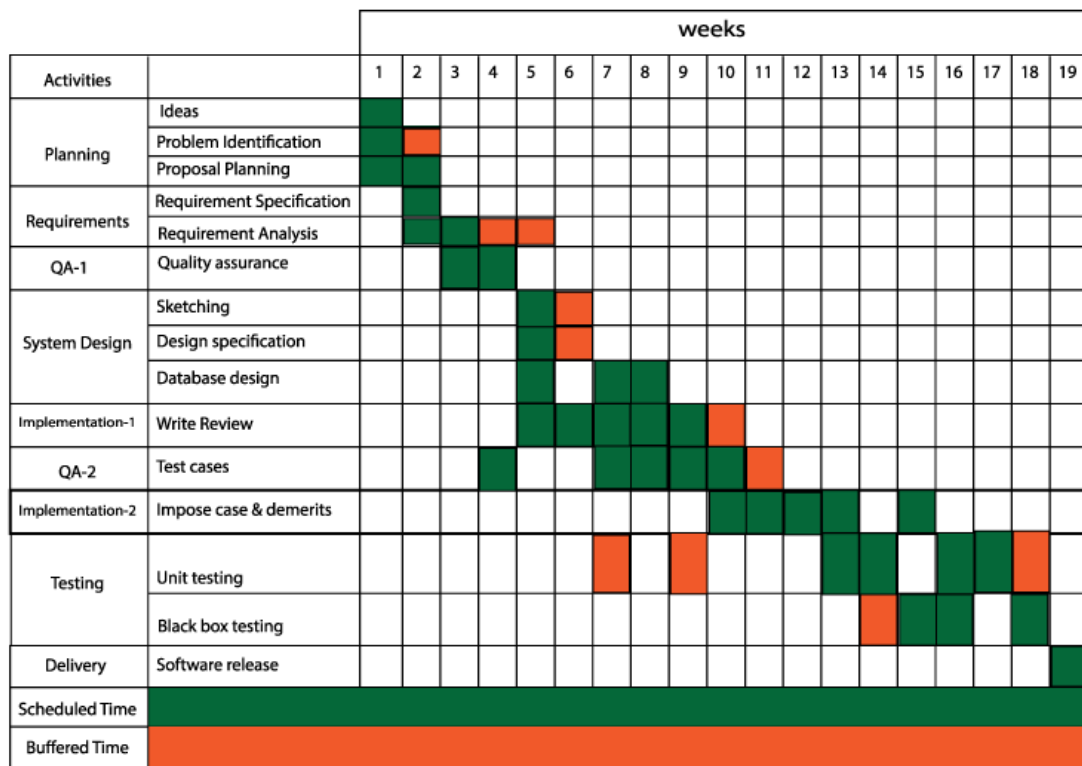


Figure 1.1: Gantt chart

1.6 Objectives

Bangladeshi standard International platform. To help all the business man. Help to checking product quality. Help them order product. Make garments sells system more easily. Delivering the right product.

2

CHAPTER 2: REQUIREMENT ENGINEERING

2.1 Functional Requirements (FR):

Functional requirements means that a function which is mostly mandatory and most important in an system. It describes that functions of a software which must perform. Functional Requirements of a system that capture the all intended behavior of that system. Now I am mentioning some related Functional Requirements of this project:

2.1.1 Registration

FR 1	Registration
Description	User should be complete registration for login.
Stakeholder	Customer

2.1.2 Login & logout

FR 2	Login & Logout
Description	This is another criteria for user to using this system
Stakeholder	Customer & Admin

2.1.3 Add new product

FR 3	Add new product
Description	Admin can add new product with a product title and description for the customer.
Stakeholder	Admin

2.1.4 Order product

FR 4	Order Product
Description	A customer can order any product at any time
Stakeholder	Customer

2.2 Non-Functional Requirement (NFR):

2.2.1 Performance

NFR 1	Performance
Description	This system will be provide best performance without any fault
Stakeholder	Admin

2.2.2 Capacity

NFR 2	Capacity
Description	This system has the ability to capture 10000 profiles
Stakeholder	Admin

2.2.3 Reliability

NFR 3	Reliability
Description	This system performed the all activities of it accurately.
Stakeholder	Admin

2.2.4 Security

NFR 4	Security
Description	The database of this system will secured all data.
Stakeholder	Admin

2.2.5 Availability

NFR 4	Availability
Description	The system will be available 24 hours in a day to the admin
Stakeholder	Admin

3.1 Development Model

I am a new one, as a long term development. So I choose agile model to develop my project. It was important for me to check every step of the way to make sure my system was working perfectly. This model gives me those opportunities so that I can be sure of every step. This model helps me to complete this project that can be changed easily. By following this model, the risk can be reduced through frequent testing and it is possible to build much bigger things in less time. Here I am showing the agile model:

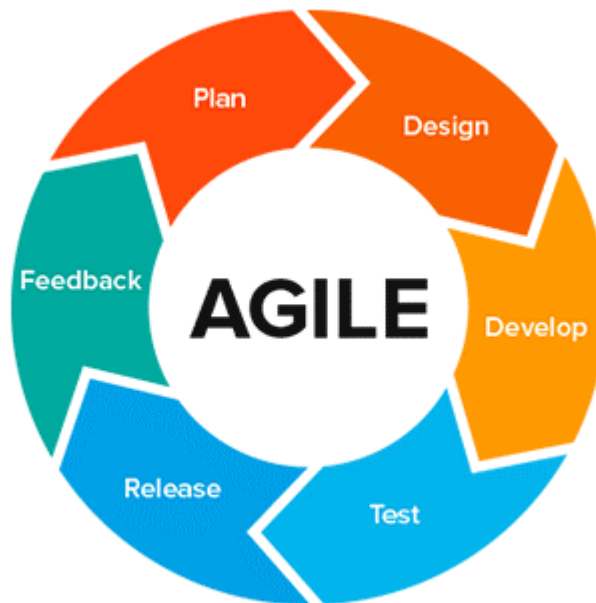


Figure 3.1: Agile Model

3.2 Use Case Diagram



Figure 3.2: Use Case Admin

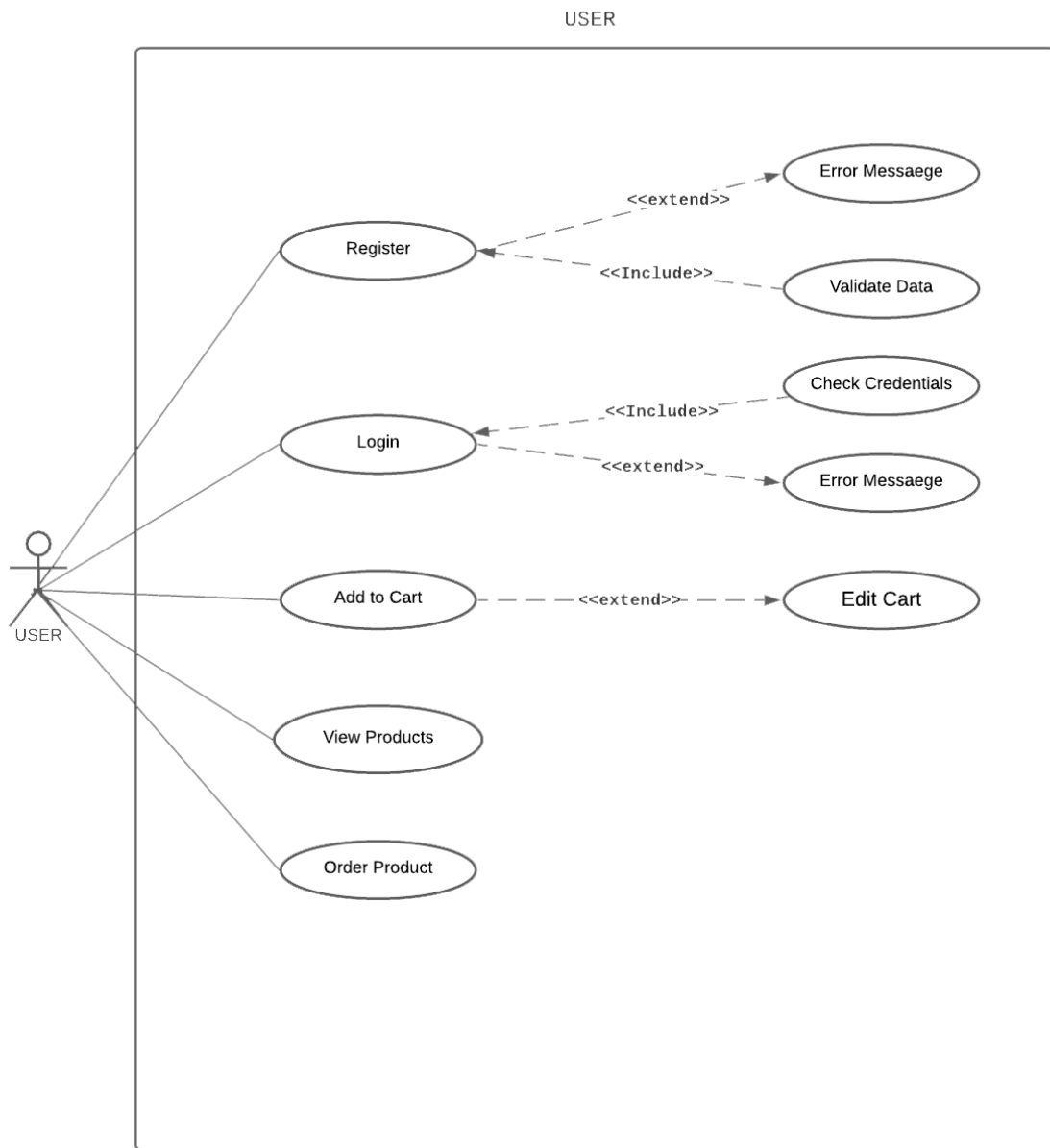


Figure 3.3: Use Case User

3.3 Use Case Description

3.3.1 Log In

If any user wants to access all the features in this system, user must be log in to the system. For log in to the system user must be insert email and password. If the user is not registered, can not log in to the system.

Use case ID	01
Use Case Name	Login
Goal	Allow user to entry the system
Preconditions	User need to complete registration part
Primary Actor Secondary Actor	User
Trigger	Button
Description	<ul style="list-style-type: none">• To enter the system• Access all features
Post Condition	At any time user can log out
Alternative Flow	Sign Up

3.3.2 Sign Up

If anybody wants to log in to the system. First of all they must be complete registration part. They need to insert their information in to the registration forum. After completing this part they can sign up. And they can access all the features in the system.

Use case ID	02
Use Case Name	Sign Up
Goal	Creating new user profile
Preconditions	User must have an email address
Primary Actor	User
Secondary Actor	
Trigger	Button
Description	<ul style="list-style-type: none">• To enter the system• Create a new user profile• Access all features
Post Condition	At any time user can log in
Alternative Flow	Login

3.3.3 Add a new product

The admin can add new product at any time with product details. He can write short description about this product.

Use case ID	03
Use Case Name	Add new product
Goal	Add new product in the system
Preconditions	Admin must be login
Primary Actor	Admin
Secondary Actor	
Trigger	Button
Description	<ul style="list-style-type: none">• To enter the system• Add new product• Access to the dashboard
Post Condition	N/A
Alternative Flow	N/A

3.3.4 Approve order

The admin can approve order. When the user order the product, those orders are stored in the dashboard.

Use case ID	04
Use Case Name	Approve order
Goal	Approve sending order
Preconditions	Customer need to send order
Primary Actor	Admin
Secondary Actor	
Trigger	Button
Description	<ul style="list-style-type: none">• To enter the system• Access to the dashboard
Post Condition	N/A
Alternative Flow	Cancel Order

3.3.5 Cancel Order

If the user sent an order without sending the right information, the order will be canceled by admin.

Use case ID	05
Use Case Name	Cancel Order
Goal	Canceling the wrong order
Preconditions	User needs to send order
Primary Actor	Admin
Secondary Actor	
Trigger	Button
Description	<ul style="list-style-type: none">• To enter the system• Access to the dashboard• Pending Order
Post Condition	N/A
Alternative Flow	Approve order

3.3.6 Add to cart

After login user can access all the features in the system. They can view all available product in the system. They can choose what they want. They can add to cart and send order to the admin.

Use case ID	06
Use Case Name	Order product
Goal	Buy product from the system
Preconditions	User must be login
Primary Actor	User
Secondary Actor	
Trigger	Button
Description	<ul style="list-style-type: none">• To access the system• Vies products• Add to cart and send order
Post Condition	N/A
Alternative Flow	N/A

3.3.7 Log Out

User and Admin both of them they need to log out for terminate their session from the system. Closing the browser or window will not log out from the session. They should log out manually from the system.

Use case ID	07
Use Case Name	Log out
Goal	For terminating the session
Preconditions	User must be login with valid keywords
Primary Actor	User
Secondary Actor	Admin
Trigger	Button
Description	<ul style="list-style-type: none">• Escape from the session• Finish used session
Post Condition	User can login at any time
Alternative Flow	N/A

3.4 Activity Diagram

I have done some activity diagram according to my project.

3.4.1 Login

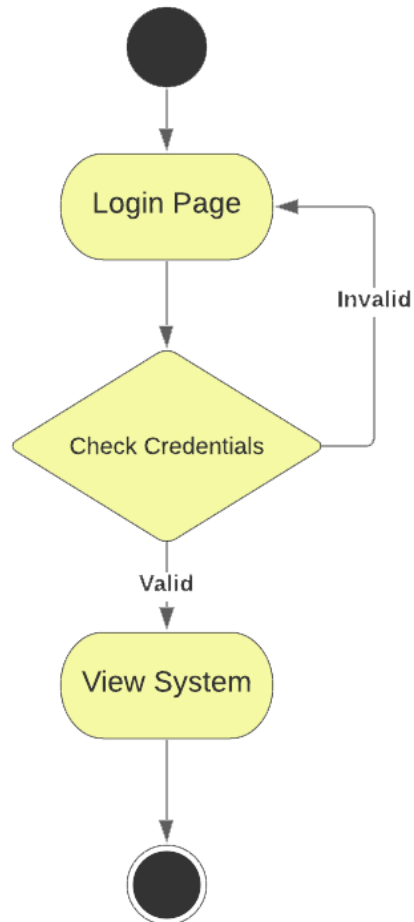


Figure 3.4: Activity Diagram Login

3.4.2 Registration

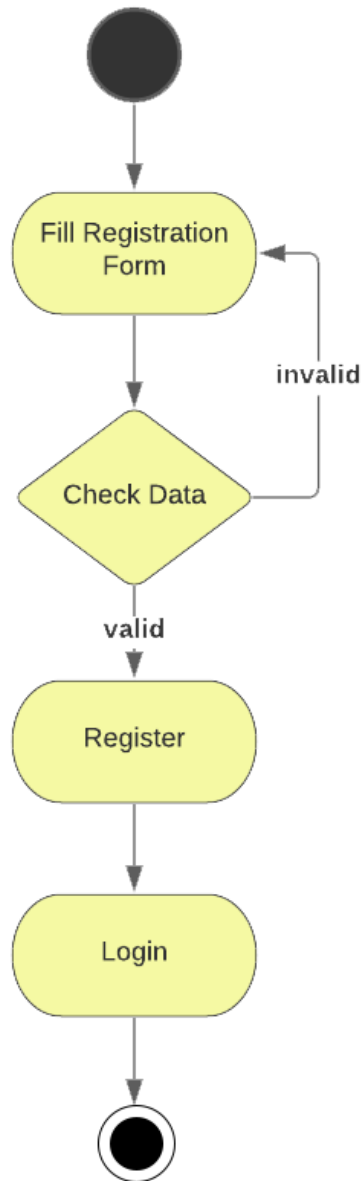


Figure 3.5: Activity Diagram Registration

3.4.3 Add Product

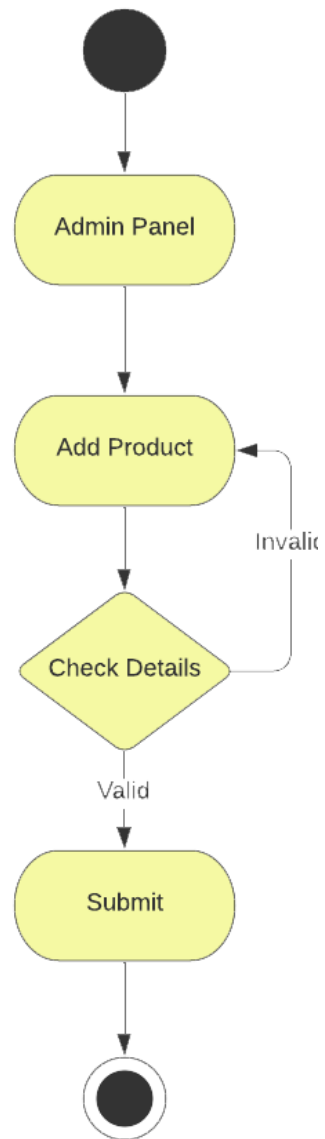


Figure 3.6: Activity Diagram Add Product

3.4.4 Approve Order

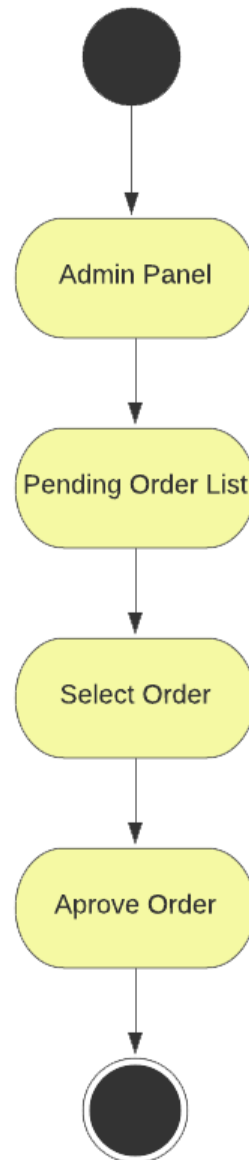


Figure 3.7: Activity Diagram Approve Order

3.4.5 Cancel Order

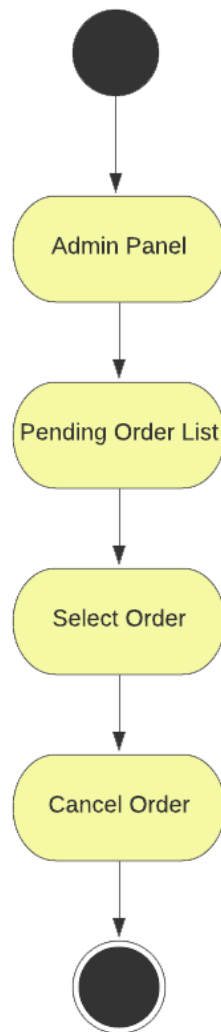


Figure 3.8: Activity Diagram Cancel Order

3.4.6 Order Product

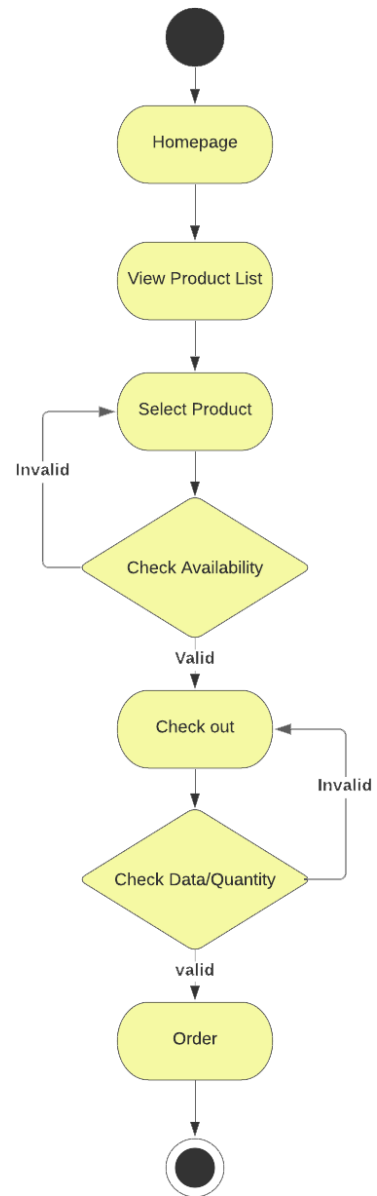


Figure 3.9: Activity Diagram Order Product

3.5 Data Flow Diagram

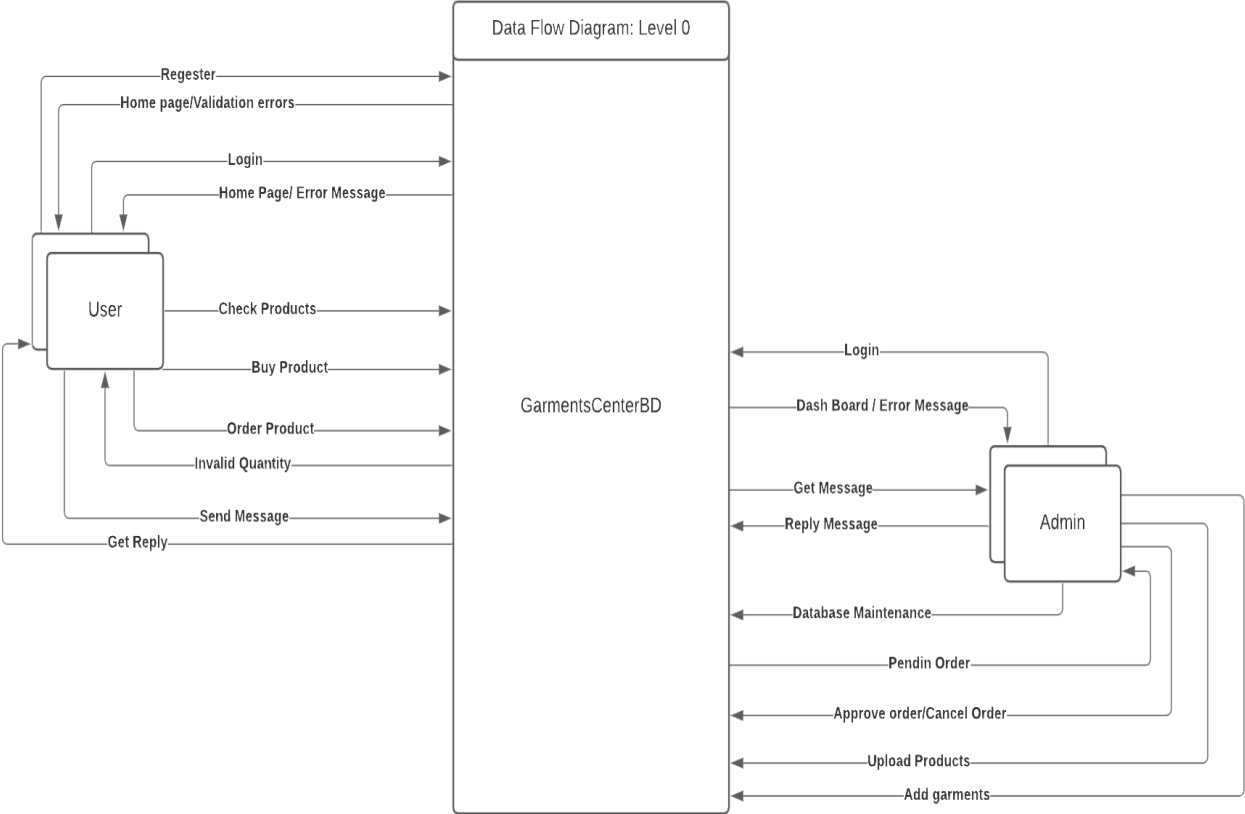


Figure 3.10: Data Flow

3.6 Sequence Diagram

3.6.1 Login

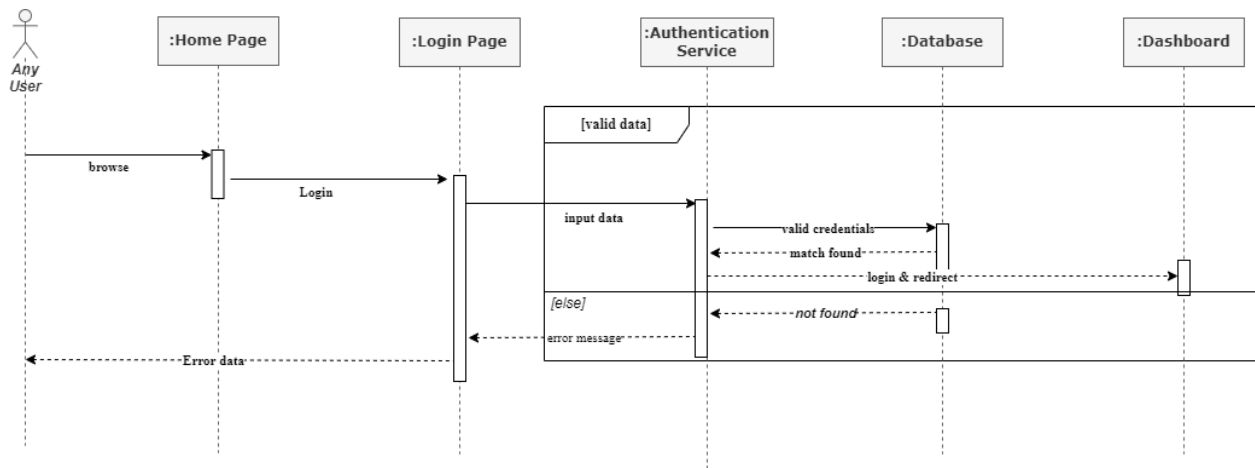


Figure 3.11: Sequence Diagram Login

3.6.2 Registration

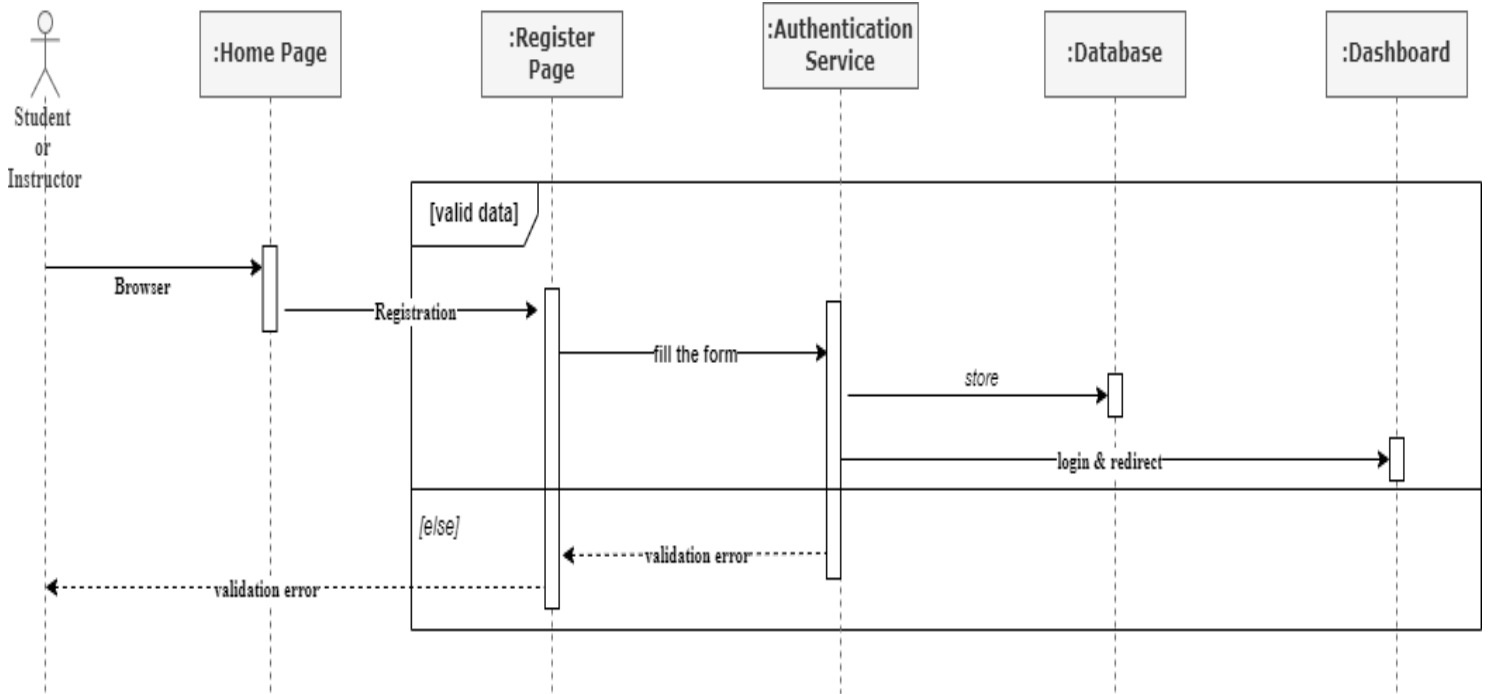


Figure 3.12: Sequence Diagram Login

3.6.3 Add a new product

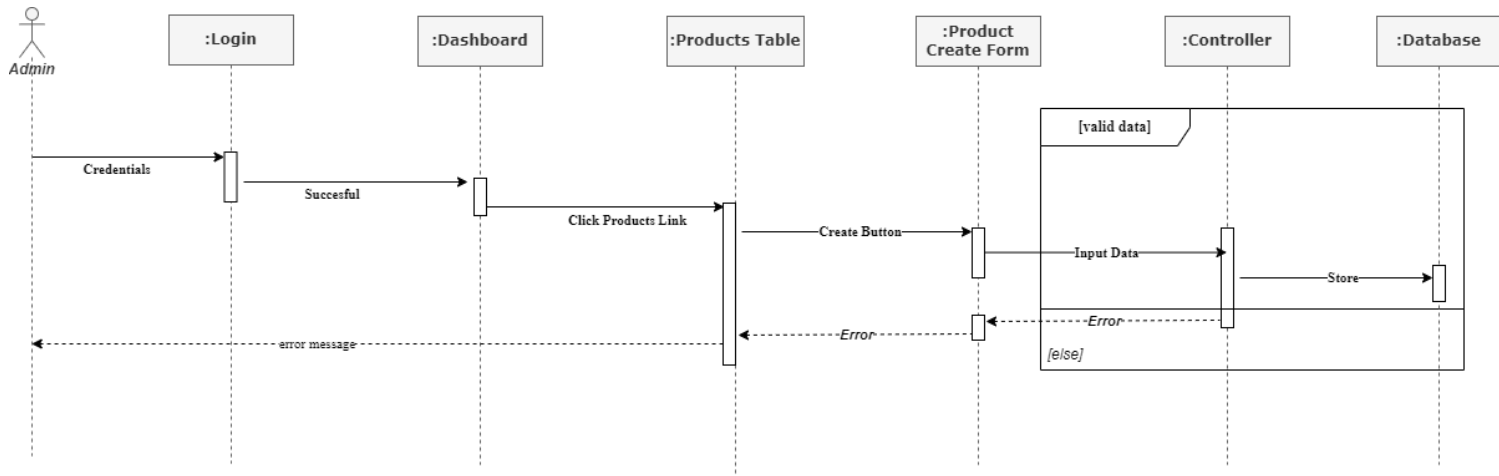


Figure 3.13: Sequence Diagram Add New Product

3.6.4 Order Products

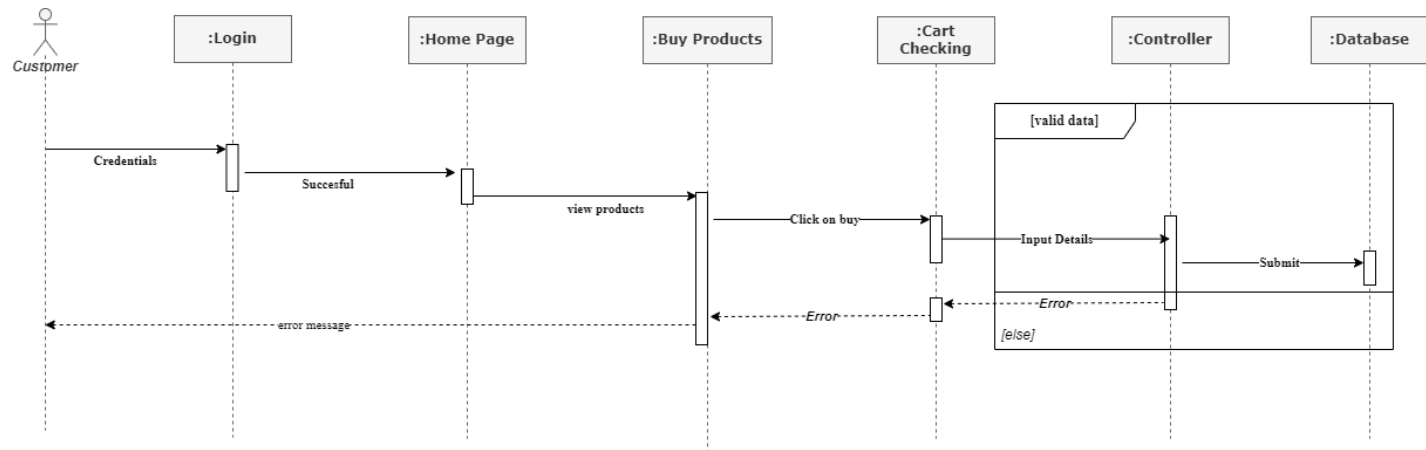


Figure 3.14: Sequence Diagram Order Products

3.7 Entity Relationship Diagram

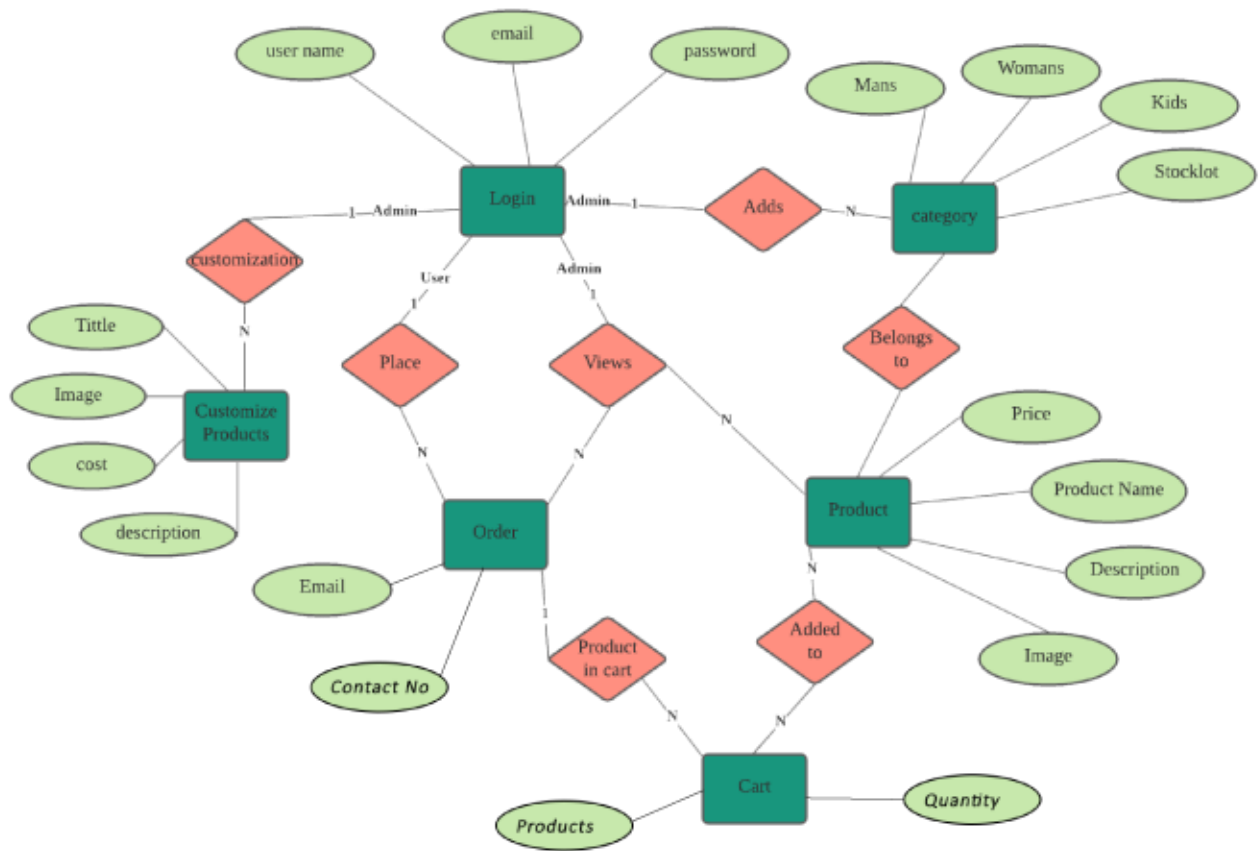


Figure 3.15: ERD

3.8 Tools & Technologies

1. Front End

- HTML 5, CSS 3, Bootstrap 5

2. Back End

- PHP Laravel Framework 8 (VS Code 1.6)

3. Database

- MySQL (8.0)

4. Local Host

- XAMPP (8.0.11)

4

CHAPTER 4: SYSTEM TESTING

4.1 Feature Testing

Feature testing is done to add or modify some new work on the system. All the feature and all the functionality has different kinds of characteristics. All of this is done to make the system more usable.

4.1.1 Features to be tested

Features	Priority	Description
Log In	Low	User will be authenticate by login
Kog Out	Medium	After logout session must be destroy
Registration	Low	User profile must be stored in dashboard
Add new product	High	New added product must be stored in dashboard properly
View Product	Low	Product must be showed properly in system
Order product	High	User must be order product properly
Approve Order	High	Admin must be approve order perfectly

Table 4.1: Feature Priority Table

4.2 Testing Strategies

4.2.1 Test Approach

- **Black-box** testing is a test that ignores the internal processes of the system. Focuses only on selected inputs and outputs generated in response to execution conditions.
- **White-box** testing is testing that takes into account the internal components of the system. That also called structural testing.

4.2.2 Pass/Fail Criteria

I set some pass or fail values to test the unit. It works based on any input data. If the work is completed well through data input, it is considered as a pass. If do not complete the work will be considered a failure.

- Crashing in system in considered to fail case
- 100% pass of any testing will be considered to pass criteria only

4.2.3 Testing Schedule

Test phase	Time
Plan creation	7 days
Unit testing	On Development Time
Component test	On Development Time
Integration testing	10 days
Testing user interfaces	7 days
Load testing	7 days
Performance testing	7 days
Accessibility testing	10 days

Table 4.2: Feature Priority Table

4.3 Testing Environment

Testing environment means preparing the environment with hardware and software so that the tester able to perform test case as required. In addition to the use of hardware and software, network configuration is also required to implement test plan. Here I am mentioning some key areas I used in test case environment:

- Data Test
- Web Server
- Database Server
- Front End Development
- Back End Development
- Network
- Browser
- System

4.4 Test Cases

Test case means certain rules and regulation or conditions by which it is determined whether a system will be able to perform better under test case properly. We know, every system has potential to break some bugs or holes. That is very common view of software development process. In additional this problems are usually solve through software testing method. However, if we do not address this issues, system development may fail. To test my system I have done some test case:

4.4.1 Login

Test Case 1		Test Case Name: Login		
System: GarmentsCenterBD		Subsystem: N/A		
Designed by: Showaive Hossain				
Description: Allow the user to enter the system by system authentication				
Precondition: User need to complete registration part and user must give valid credentials				
Serial	Email	Password	Expected result	Pass / Fail
1	Show	17368	This credentials are not matched	Pass
2		17368	The email must be required	Pass
3			Must be input valid data	Pass
4	showaive@gamil.com	14725	Successfully Log in to the system	Pass
Post Condition		User will successfully login to the system		

4.4.2 Log Out

Test Case 2		Test Case Name: Log Out	
System: GarmentsCenterBD		Subsystem: N/A	
Designed by: Showaive Hossain			
Description: Escape from the session and Finish used session			
Precondition: User can login at any time			
Serial	Action	Response	Pass / Fail
1	Hit logout button	This credentials are not matched	Pass
Post Condition		User can login any time	

4.4.3 Sign Up

Test Case 3		Test Case Name: Sign Up		
System: GarmentsCenterBD		Subsystem: N/A		
Designed by: Showaive Hossain				
Description: Creating new user profile to database				
Precondition: User must have an email address				
Serial	Email	Password	Expected result	Pass / Fail
1	Show	17368	Invalid email	Pass
2		17368	The Email must be required	Pass
3			Must be input valid data	Pass
4	Showaive@gmail.com	14725	Successfully Log in to the system	Pass
Post Condition		User can login any time		

4.4.4 Add New Product

Test Case 4				Test Case Name: Add new product	
System: GarmentsCenterBD				Subsystem: N/A	
Designed by: Showaive Hossain					
Description: Add new product to database					
Precondition: Admin must have to enter product name description and attachment					
Serial	Name	Description	Attachment	Expected result	Pass / Fail
1	Pant	ABC	.img	Product added successfully	pass
2			.img	Name and Description required	Pass
3	Shirt			Description and attachment required	Pass
4		ABC	.img	Product name required	Pass
Post Condition		User can buy product any time			

4.4.5 Approve Order

Test Case 5		Test Case Name: Approve Order	
System: GarmentsCenterBD		Subsystem: N/A	
Designed by: Showaive Hossain			
Description: Approving the pending order			
Precondition: Customer must be send order			
Serial	Action	Response	Pass / Fail
1	Click on approve button	Order approved	pass
Post Condition	N/A		

4.4.6 Cancel Order

Test Case 6		Test Case Name: Cancel Order	
System: GarmentsCenterBD		Subsystem: N/A	
Designed by: Showaive Hossain			
Description: Canceling the pending order			
Precondition: Customer must be send order			
Serial	Action	Response	Pass / Fail
1	Click on cancel button	Order canceled	pass
Post Condition	N/A		

4.4.7 Add to Cart

Test Case 7		Test Case Name: Add to Cart	
System: GarmentsCenterBD		Subsystem: N/A	
Designed by: Showaive Hossain			
Description: Adding in to cart customer can send order			
Precondition: User must be log in to the system			
Serial	Action	Response	Pass / Fail
1	Click on buy button	Product added in to your cart	pass
Post Condition	User can order them		

5

CHAPTER 5: USER MANUAL

5.1 Sign Up

A new user can be sign up in this system with their name, email address and password. After completing this part user can login any time in this system using their email and password. And they can access all the features.

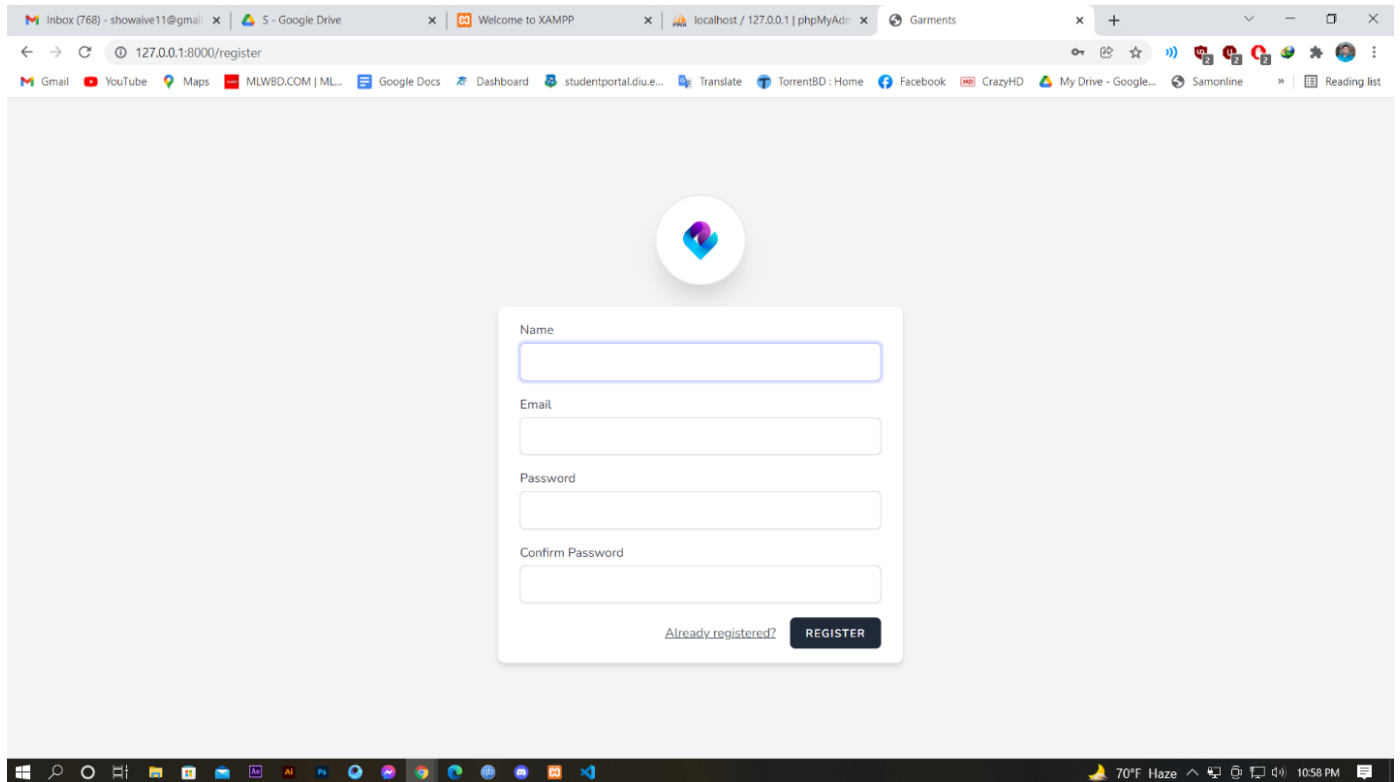


Figure 5.1: Registration Page

5.2 Log In

Only registered user can be login with their email and password.

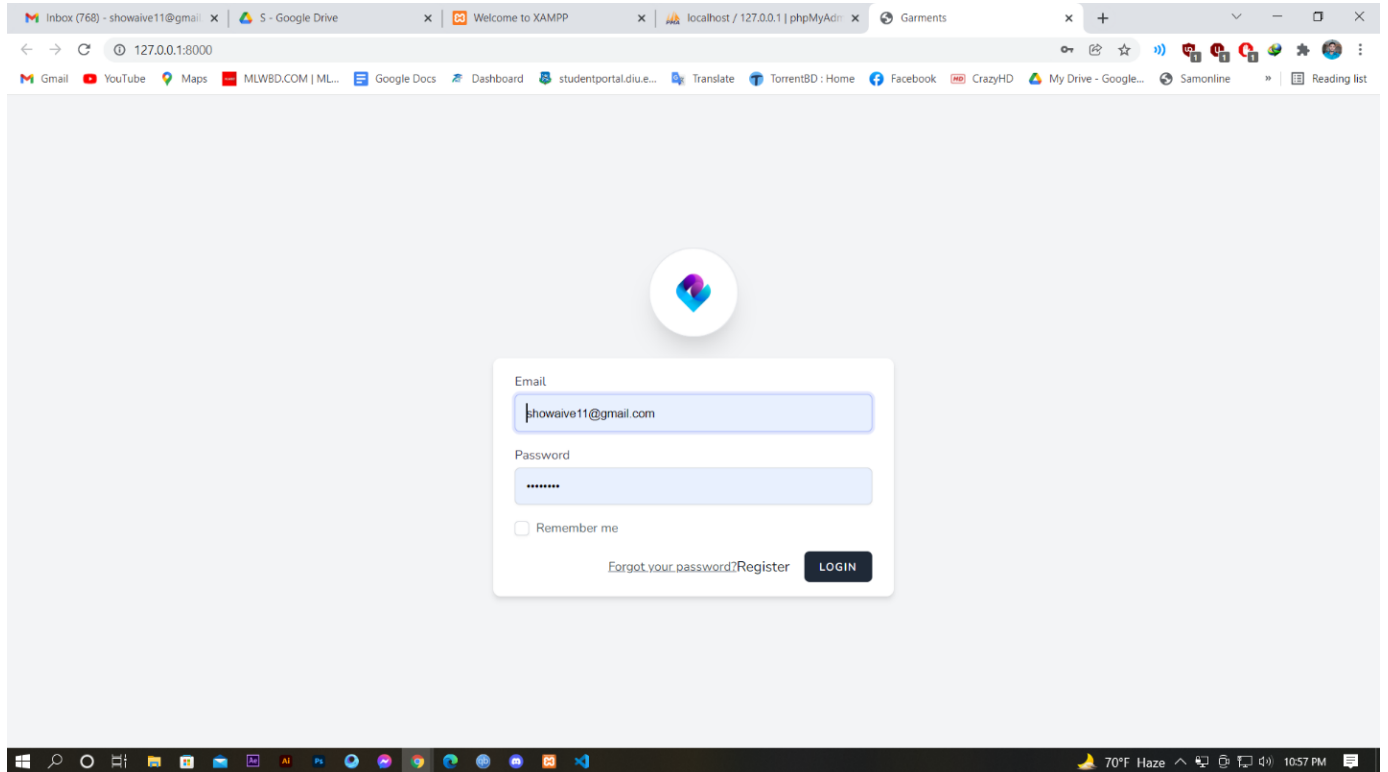


Figure 5.2: Login Page

5.3 Home Page

In home page user can see all the available products which uploaded.

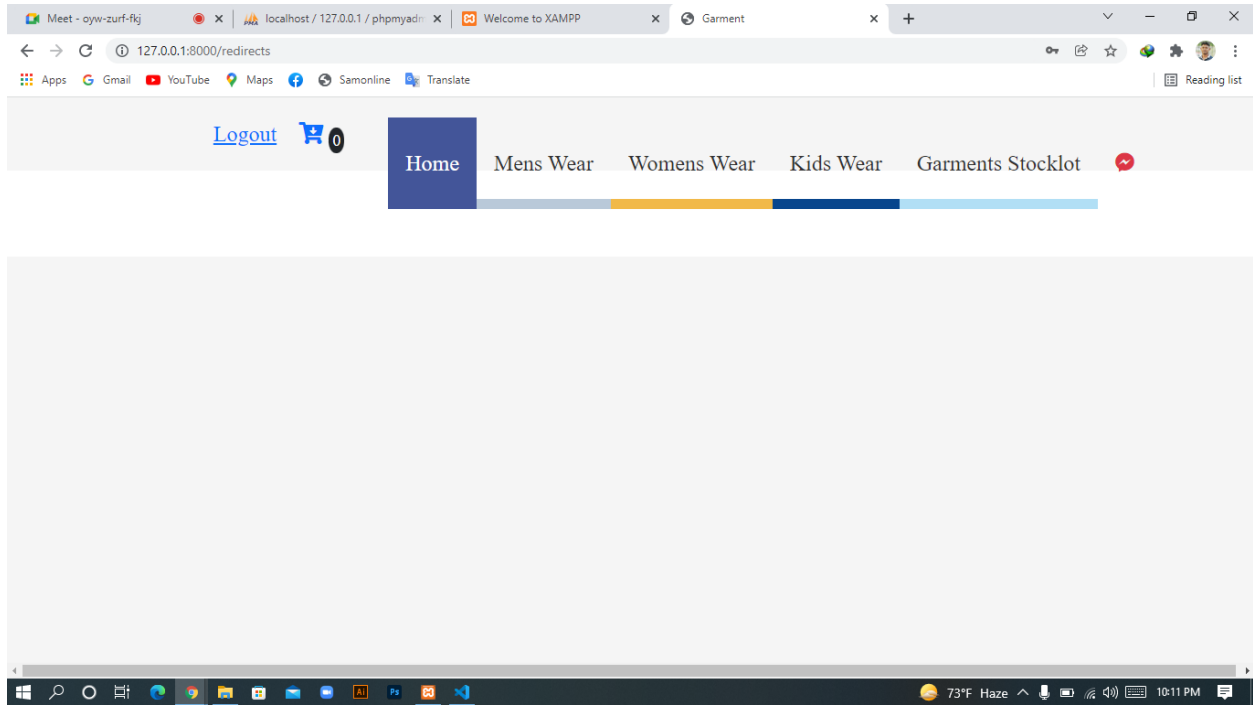


Figure 5.3: Home Page

5.4 Admin Panel

In admin panel admin can upload new product. He can add a new garments, he can delete any product from the system. Admin can approve or cancel order from admin panel.

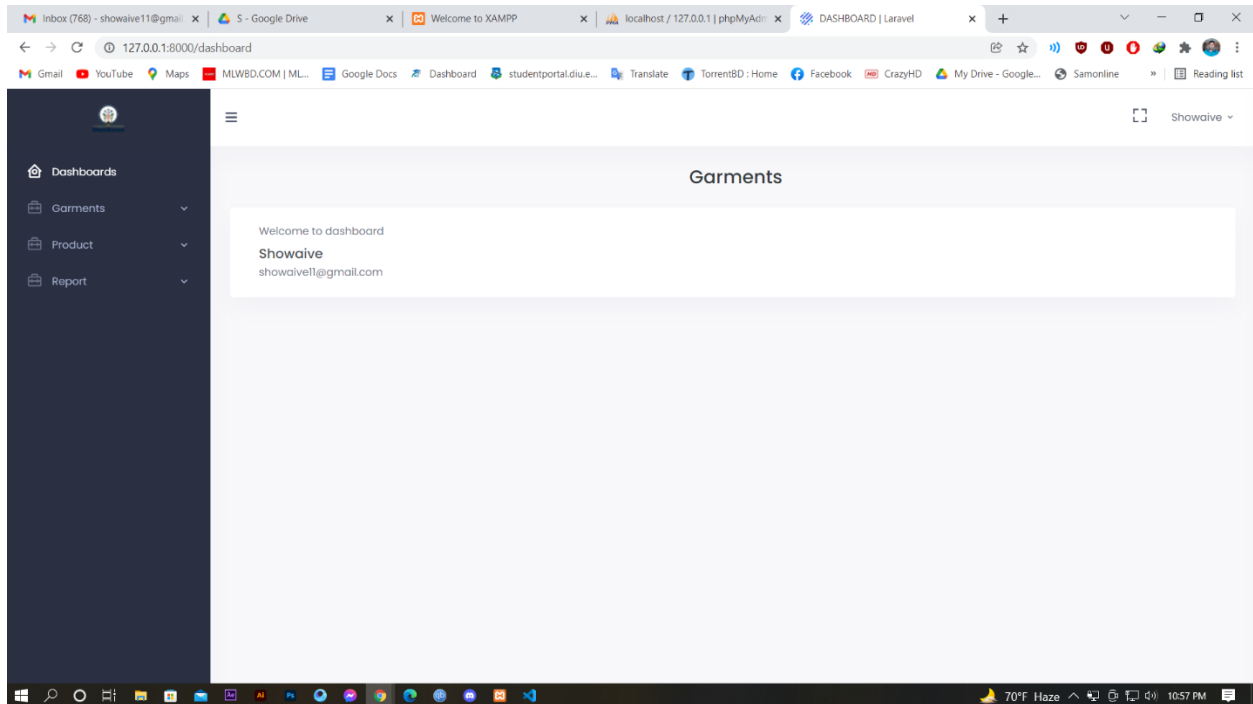


Figure 5.4: Admin Page

5.5 Order List

In admin panel admin can access all the order list which comes from the users. He can approve or delete any order from order list.

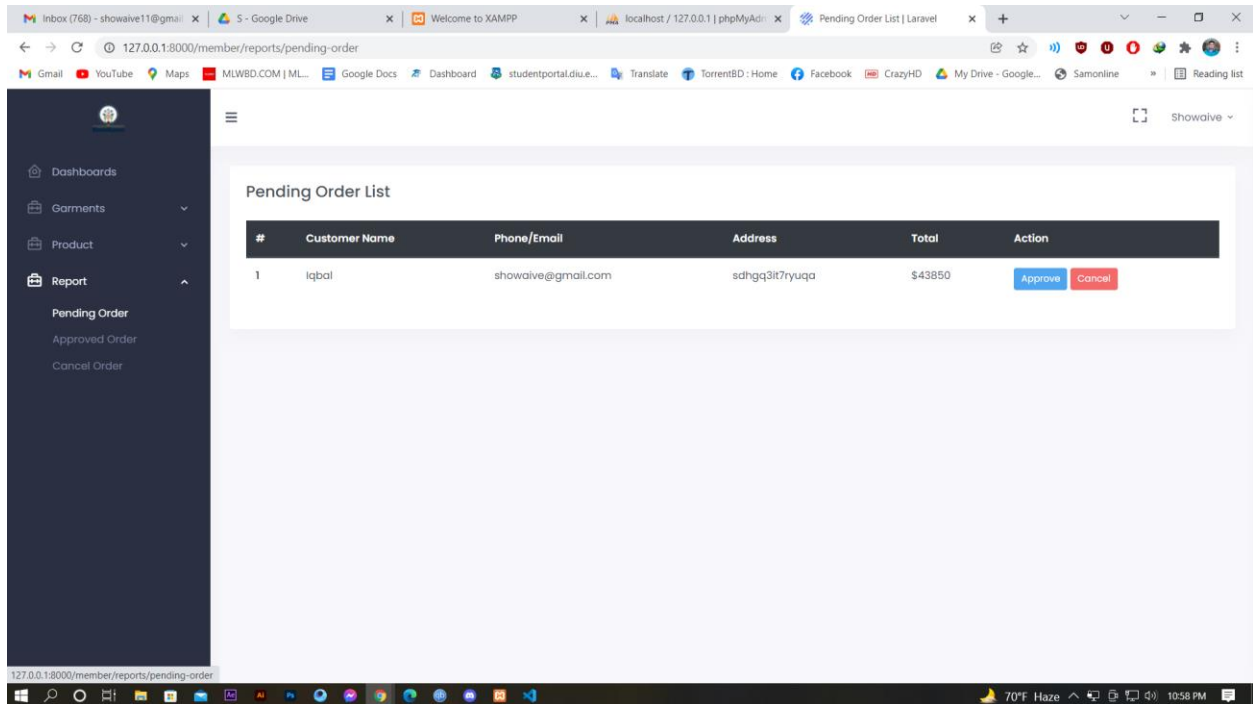


Figure 5.5: Order List

There are many e-commerce sites in Bangladesh. But nothing can be done for business purposes from there. But my site is a complete trading platform. Where everyone can not only buy, but also sell. That will be a trusted site. Everyone's products will be delivered on time and in the right place. The slogan will "Give us a chance, to protect your trust".

6.1 Limitations

Since I am at intermediate development stage, I cannot fill my system with the all useable features. Here I am mentioning some limitation in my project:

- This system is not yet complete. There are still some features to be added to this system. This will make the system a complete e-commerce site.
- Online payment, Bill management system is not available in this system.
- This is now just a web base system, mobile or computer application is not available at this moment.

6.2 Obstacles and Achievements

The path I took to develop this system was full of challenges, I overcome many obstacles to finish. The way for success is in overcoming challenges and obstacles paves. When I started to develop this project, I faced many problems, challenges and obstacles. But I did not give up. In this project I used laravel.

There I used some classes which are really new for me. When I started this, I faced so many problems dealing with this language. I have encountered some problems with basic CRUD activities. And also there I faced some problems connecting to the database and local host. After so many months of my hard work, my system successfully developed by me.

All the features in my system work perfectly. This would be a great achievement for me if users find it easy to use.

6.3 Future Scope

- A mobile application with more advanced features can be developed for this system.
- A desktop application can be developed with more features for this system.
- This system could be host on an online server to make it globally accessible.
- Create more robust database structure to reduce database query overload.
- There can be set an integrate multiple load balancer to distribute system loads.
- For reducing risk, there can be a backup mechanism which will keep every days backup of the database.

7

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7.1 Git-Hub Link

- <https://github.com/Showaive/Garments>

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Technology Daffodil International University Certified By: Syeda Sumbul Hossain Senior

Lecturer Department of Software Engineering Faculty of Science & Information Technology Daffodil

International University ACKNOWLEDGEMENT At first, I am proud that I did well towards the end of my semester. I am very pleased with Allah. At starting of university life, I learned about software development from my honorable teachers. And I also study computer science-related course from my teachers. My course mates also help me to complete all the courses. Teachers teach in all subjects related to software, apart from our policies and ethics. I am very proud of my family, because they give me this opportunity. They are always with me. I am grateful to my supervisor Syeda Sumbul Hossain. Today I have been able to complete this project through his guidance. It was through her guidance that I was able to move forward. She supports me a lots of for successful end of this projects (GarmentsCenterBD). Project Summary There are many garments in Bangladesh. But we do not know what type of product a garments makes. And also we do not know what the price of a garments product is. Sometimes people do not know how to export product from the garments and everyone cannot contact with garments manager. That's why I decide to make this project, so that everyone can make it easily. Every software development industry follow some rules and technique for development every software. I also followed some rules and technique from there. I complete every way of implement this project by following agile method. I chose this method because I thought this the best way to implement my project "GarmentsCenterBD". Table of Contents 1 CHAPTER 1:

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58 [1 CHAPTER 1: INTRODUCTION 1.1 Project Overview](#) The project “GarmentsCenterBD” I created it to innovate of the business. So that everyone can buy as they like. There are some middle class traders who can't buy products from big garments if they want. This project owes a lot to them. They can easily import products from here at any time. It will be open to all traders in the country. Everyone can buy from here. There will be a feature called stock lot. Where retailers can easily sell their wares. If retailers can't sell their product for any reason, they can easily sell it here. This site is very easy to use. Everyone can use it very easily. Because this site has user friendly interface. There are many e-commerce sites in Bangladesh. But nothing can be done for business purposes from there. But my site is a complete trading platform. Where everyone can not only buy, but also sell. That will be a trusted site. Everyone's products will be delivered on time and in the right place. The slogan will “Give us a chance, to protect your trust”.

1.2 Project Purpose “GarmentsCenterBD” The purpose is to break the old system of business into a new one. The needs of the traders are to be readily available and easily accessible to all. There is a user friendly interface so that everyone can use it. Secure and reliable business site. Functionalities provided by “GarmentsCenterBD” ? An open business site in online ? better user experience ? Fresh User Interface ? Everybody in this platform ? Anyone can sell and buy ? Delivery of products safely after order

1.2.1 Background Based on some E-commerce site, I want to make a user friendly environment, which will help the customer and all user from their satisfactory level. Here users can buy products of their choice and sell even if they have something to sell. A beautiful online platform has been created for easy buying and selling.

1.2.2 Benefits & Beneficiaries This system will be helpful for garment traders who are looking for an easy to use and reliable system. I mentioned some features: ? This system will help traders to do business remotely ? This system stores data of all users and products ? Authorized users can access from anywhere ? All users will get a simple user interface ? Reduce office management and manpower costs

1.3 Stakeholders Individuals or organizations who are directly involved in the project, After the implementation of the project, those who can use it to have a positive or negative impact are all one of the [stakeholders](#). There are 2 [types of stakeholder in this project](#):

1.3.1 Administrators [The](#) admin who can control the whole system. Who can add new product. Admin can also delete a product from the system. He can edit product details. Admin can approve the orders. He can cancel the orders. He can update the all product in formation. He can manage whole system progress.

1.3.2 Customers All the user can visit the system. But only registered customer can view the details of product. Only they can order the product. Unregistered customer can not order the product. After ordering the product customer must be sent the email or phone number to admin. And the admin will be mail back.

1.4 Modules of GarmentsCenterBD ?

Registration: To manage user in the system ? Login: User Authentication ? Product Module:

To manage all product in the system ? Order Module: Manage the order system

1.4.1 Focused Modules ? Registration: interested person who want to login the system must be complete the registration part. A person can be registered by using email and password. The user name and password will be saved in database. ? Login: After inserting the correct credential, user can log in to the system. User can select available product from the system. And they can order them from the system. In login page, if the user give wrong credentials they can not login to the system. ? Product: In the home page the user can see all the product which are available for order. They can select from them which they need to buy. Selected product can be order by user. ? Oder: For ordering the

product the user must be select product from the system. Than they can order those product giving by mobile number or email. 1.5 Project Schedule I have to finish the project in a short time, so I made a time list. This is the most important one. It helps a lot to finish the job on time. 1.5.1 Gantt chart Gantt chart, which is a tool of controlling production time. It plays a very important role in completing the task at the appointed time. Any kinds of developing site it used mostly. And I am also make one for my project: Figure 1.1: Gantt chart 1.6 Objectives Bangladeshi standard International platform. To help all the business man. Help to checking product quality. Help them order product. Make garments sells system more easily. Delivering the right product. 2 CHAPTER 2: REQUIREMENT ENGINEERING 2.1 Functional Requirements (FR): Functional requirements means that a function which is mostly mandatory and most important in an system. It describes that functions of a software which must perform.

Functional Requirements of a system that capture the all intended behavior of that system.

Now I am mentioning some related Functional Requirements of this project: 2.1.1 Registration FR 1

Registration Description User should be complete registration for login. Stakeholder Customer 2.1.2 Login & logout FR 2 Login & Logout Description This is another criteria for user to using this system Stakeholder Customer & Admin 2.1.3 Add new product FR 3 [Add new product Description Admin can add new product](#) with a [product](#) title and [description](#) for the customer. Stakeholder Admin 2.1.4 Order product FR 4 Order Product Description A customer can order any product at any time Stakeholder Customer 2.2 NonFunctional Requirement (NFR): 2.2.1 Performance NFR 1 Performance Description This system will be provide best performance without any fault Stakeholder Admin 2.2.2 Capacity NFR 2 Capacity Description This system has the ability to capture 10000 profiles Stakeholder Admin 2.2.3 Reliability NFR 3 Reliability Description This system performed the all activities of it accurately. Stakeholder Admin 2.2.4 Security NFR 4 Security Description The database of this system will secured all data. Stakeholder Admin 2.2.5 Availability NFR

4 Availability Description The system will be available 24 hours in a day to the admin

Stakeholder Admin 3 CHAPTER 3: SYSTEM ANALYSIS, DESIGN & SPECIFICATION 3.1 Development Model I am a new one, as a long tern development. So I choose agile model to develop my project. It was important for me to check every step of the way to make sure my system was working perfectly. This model gives me those opportunities so that I can be sure of every step. This model helps me to complete this project that can be changed easily. By following this model, the risk can be reduced through frequent testing and it is possible to build much bigger things in less time. Here I am showing the agile model: Figure 3.1: Agile Model [3.2 Use Case Diagram Figure 3.2: Use Case Admin Figure 3.3: Use Case User 3.3 Use Case Description 3.3.1 Log In](#) If any user wants to access all the features in this system, user must be log in to the system. For log in to the system user must be insert email and password. If the user is not registered, can not log in to the system. Use case ID 01 Use Case Name Login Goal Allow user to entry the system Preconditions User need to complete registration part Primary Actor Secondary Actor User Trigger Button Description ? To enter the system ? Access all features Post Condition At any time user can log out Alternative Flow Sign Up 3.3.2 Sign Up If anybody wants to log in to the system. First of all they must be complete registration part. They need to insert their information in to the registration forum. After completing this part they can sign up. And they can access all the features in the system. Use case ID 02 Use Case Name Sign Up Goal Creating new user profile Preconditions User must have an email address Primary Actor Secondary Actor User Trigger Button Description ? ? ? To enter the system Create a new user profile Access all features Post Condition At any time user can log in Alternative Flow Login 3.3.3 Add a new product The admin can add new product at any time with product details. He can write short description about this product. Use case ID 03 Use Case Name Add new product Goal Add new product in the system Preconditions Admin must be login Primary Actor Secondary Actor Admin Trigger Button Description ? ? ? To enter the system Add new product Access to the dashboard Post Condition N/A Alternative Flow N/A 3.3.4 Approve order The admin can approve order. When the user order the product, those orders are stored in the dashboard.

Use case ID 04 Use Case Name Approve order Goal Approve sending order Preconditions

Customer need to send order Primary Actor Secondary Actor Admin Trigger Button

Description ? ? To enter the system Access to the dashboard Post Condition N/A Alternative Flow Cancel Order 3.3.5 Cancel Order If the user sent and order without sending right information. The order will be cancel by admin. Use case ID 05 Use Case Name Cancel Order Goal Canceling the wrong order Preconditions User need to send order Primary Actor Secondary Actor Admin Trigger Button Description ? ? ? To enter the system Access to the dashboard Pending Order Post Condition N/A Alternative Flow Approve order 3.3.6 Add to cart After login user can access all the features in the system. They can view all available product in the system. They can choose what they want. They can add to cart and send order to the admin. Use case ID 06 Use Case Name Order product Goal Buy product from the system Preconditions User must be login Primary Actor Secondary Actor User Trigger Button Description ? To access the system ? Vies products ? Add to cart and send order Post Condition N/A Alternative Flow N/A 3.3.7 Log Out User and Admin both of them they need to log out for terminate their session from the system. Closing the browser or window will not log out from the session. They should log out manually from the system. Use case ID 07 Use Case Name Log out Goal For terminating the session Preconditions User must be login with valid keywords Primary Actor User Secondary Actor Admin Trigger Button Description ? ? Escape from the session Finish used session Post Condition User can login at any time Alternative Flow N/A 3.4 [Activity Diagram I have done some activity diagram according to my project.](#) 3.4.1 [Login Figure 3.4: Activity Diagram Login](#) 3.4.2 [Registration Figure 3.5: Activity Diagram Registration](#) 3.4.3 [Add Product Figure 3.6: Activity Diagram Add Product](#)

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[MySQL \(8.0\)](#) 4. [Local Host ? XAMPP \(8.0.11\)](#) 4 [CHAPTER 4: SYSTEM TESTING](#) 4.1 [Feature](#)

Testing Feature testing is done to add or modify some new work on the system. All the feature and

all the functionality has different kinds of characteristics. All of this is done to make the system more usable.

4.1.1 Features to be tested **Features Priority Description** Log In Low User will be authenticate by login Kog Out Medium After logout session must be destroy Registration Low User profile must be stored in dashboard Add new product High New added product must be stored in dashboard properly View Product Low Product must be showed properly in system Order product High User must be order product properly Approve Order High Admin must be approve order perfectly Table 4.1: Feature Priority Table 4.2 Testing Strategies 4.2.1 Test Approach ? Black-box testing is a test that ignores the internal processes of the system. Focuses only on selected inputs and outputs generated in response to execution conditions. ? White-box testing is testing that takes into account the internal components of the system. That also called structural testing. 4.2.2 Pass/Fail Criteria I set some pass or fail values to test the unit. It works based on any input data. If the work is completed well through data input, it is considered as a pass. If do not complete the work will be considered a failure. ? Crashing in system in considered to fail case ? 100% pass of any testing will be considered to pass criteria only 4.2.3 Testing Schedule Test phase Time Plan creation 7 days Unit testing On Development Time Component test On Development Time Integration testing 10 days Testing user interfaces 7 days Load testing 7 days Performance testing 7 days Accessibility testing 10 days Table 4.2: Feature Priority Table 4.3 Testing Environment Testing environment means preparing the environment with hardware and software so that the tester able to perform test case as required. In addition to the use of hardware and software, network configuration is also required to implement test plan. Here I am mentioning some key areas I used in test case environment: ? Data Test ? Web Server ? Database Server ? Front End Development ? Back End Development ? Network ? Browser ? System 4.4 Test Cases Test case means certain rules and regulation or conditions by which it is determined whether a system will be able to perform better under test case properly. We know, every system has potential to break some bugs or holes. That is very common view of software development process. In additional this problems are usually solve through software testing method. However, if we do not address this issues, system development may fail. To test my system I have done some test case: 4.4.1 Login Test Case 1 Test Case Name: Login System: GarmentsCenterBD Subsystem: N/A Designed by: Showaive Hossain Description: Allow the user to enter the system by system authentication Precondition: User need to complete registration part and user must give valid credentials Serial Email Password Expected result Pass / Fail 1 Show 17368 This credentials are not matched Pass 2 17368 The email must be required Pass 3 Must be input valid data Pass 4 showaive@gamil.com 14725 Successfully Log in to the system Pass Post Condition User will successfully login to the system 4.4.2 Log Out Test Case 2 Test Case Name: Log Out System: GarmentsCenterBD Subsystem: N/A Designed by: Showaive Hossain Description: Escape from the session and Finish used session Precondition: User can login at any time Serial Action Response Pass / Fail 1 Hit logout button This credentials are not matched Pass Post Condition User can login any time 4.4.3 Sign Up Test Case 3 Test Case Name: Sign Up System: GarmentsCenterBD Subsystem: N/A Designed by: Showaive Hossain Description: Creating new user profile to database Precondition: User must have an email address Serial Email Password Expected result Pass / Fail 1 Show 17368 Invalid email Pass 2 17368 The Email must be required Pass 3 Must be input valid data Pass 4 Showaive@gmail.com 14725 Successfully Log in to the system Pass Post Condition User can login any time 4.4.4 Add New Product Test Case 4 Test Case Name: Add new product

System: GarmentsCenterBD Subsystem: N/A Designed by: Showaive Hossain Description: Add new product to database Precondition: Admin must have to enter product name description and attachment Serial Name Description Attachment Expected result Pass / Fail 1 Pant ABC .img Product added successfully pass 2 .img Name and Description required

Pass 3 Shirt Description and attachment required Pass 4 ABC .img Product name required Pass Post Condition User can buy product any time 4.4.5 Approve Order Test Case 5 Test Case Name: Approve Order System: GarmentsCenterBD Subsystem: N/A Designed by: Showaive Hossain Description: Approving the pending order Precondition: Customer must be send order Serial Action Response Pass / Fail 1 Click on approve button Order approved pass Post Condition N/A 4.4.6 Cancel Order Test Case 6 Test Case Name: Cancel Order System: GarmentsCenterBD Subsystem: N/A Designed by: Showaive Hossain Description: Canceling the pending order Precondition: Customer must be send order Serial Action

Response Pass / Fail 1 Click on cancel button Order canceled pass Post Condition N/A 4.4.7

Add to Cart Test Case 7 Test Case Name: Add to Cart System: GarmentsCenterBD Subsystem: N/A Designed by: Showaive Hossain Description: Adding in to cart customer can send order Precondition: User must be log in to the system Serial Action Response Pass / Fail 1 Click on buy button Product added in to your cart pass Post Condition User can order them 5 CHAPTER 5: USER MANUAL 5.1 Sign Up A new user can be sign up in this system with their name, email address and password. After completing this part user can login any time in this system using their email and password. And they can access all the features.

Figure 5.1: Registration Page 5.2 Log In Only registered user can be login with their email and password. Figure 5.2: Login Page 5.3 Home Page In home page user can see all the available products which uploaded. Figure 5.3: Home Page 5.4 Admin Panel In admin panel admin can upload new product. He can add a new garments, he can delete any product from the system. Admin can approve or cancel order from admin panel. Figure 5.4: Admin Page 5.5 Order List In admin panel admin can access all the order list which comes from the users. He can approve or delete any order from order list. Figure 5.5: Order List 6 CHAPTER 6: CONCLUSION There are many e-commerce sites in Bangladesh. But nothing can be done for business purposes from there. But my site is a complete trading platform. Where everyone can not only buy, but also sell. That will be a trusted site. Everyone's products will be delivered on time and in the right place. The slogan will "Give us a chance, to protect your trust".

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7 CHAPTER 7: REFERENCE ?
 Laravel Document ? W3school.com ? Google 7.1 Git-Hub Link ?
<https://github.com/Showaive/Garments> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58

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