

**SOFTWARE QUALITY ASSURANCE AT CREATIVE SOFT
TECHNOLOGY LTD**

BY

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ID: 213-15-4535**

This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

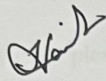
DHAKA, BANGLADESH

JULY 2024

DECLARATION

I hereby declare that, this internship has been done by **Sumsul karim sisir and (213-15-4535)** under the supervision of **Dr.Sheak Rashed Haider Noori** , Professor & Head , **Department of CSE** Daffodil International University. We also declare that neither this internship nor any part of this internship has been submitted elsewhere for award of any degree .

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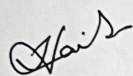
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APPROVAL

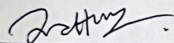
This Internship titled "Software Quality Assurance At Creative Soft Technology Ltd", submitted by "Sumsul Karim Sisir", ID No: 213-15-4535 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation was held on Jul 16, 2024.

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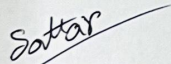
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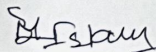
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LETTER OF TRANSMITTAL

To,
Dr. Sheak Rashed Haider Noori
Department Head
Department of CSE
Daffodil International
University

Subject: Internship report submission on SQA at Creative Soft Technologies Ltd.

It is a great pleasure to have the opportunity to submit my internship report on the experience during my internship period in SQA at Creative Soft Technologies Ltd.

I have furnished all the things that I have learned during the internship program.
I have tried my best to make this report informative and interesting.

Yours Truly,

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Abstract

Modern software systems rely on Software Quality Assurance (SQA) to provide for and maintain assurances of the operations, functionality, and reliability of. Undefined corporate world of the cutthroat economy where software programs are the lifeline of such organizations in many domains, there can never be a greater requirement for effective SQA.undefined Resource, methods, and important steps: SQA approaches, tools, and recommendations In this article, new evidence of the engineering methodology traditionally used to enforce high software quality standards is provided. SQA is explained right from the introduction of the article and it is explained how crucial it is in the software. undefined In that regard, it goes further to analyze the other methodologies of assessing software quality. like assurance (SQA), there exist pipelines for continuous integration and deployment.Some of the well-known Develops tools include Continuous Integration and Continuous Deployment (CI/CD), test automation, and manual testing. Undefined is also outlined and recommendations concerning the selection of the most suitable technique's drawbacks are also discussed.Considering all the mentioned factors and the specifics of the project.The study also tries to see how much the broader use of SQA technologies may result in overall systems improvement and undefined Many technologies can be adopted to support SQA, ranging from common technologies such as Information Technology (IT) and technology-enabled learning environment (Insightful integration of comprise a set of tools), to innovative technologies like social media and mobile technology. efforts, test management systems, test automation, and other related initiatives. undefined To identify the key characteristics and factors to consider, the report major sections of the report follow: are useful to consider while selecting the right tools for a specific task or project.In addition, it is also important to note that cooperation between all regarding the development and quality clients, assurance, and operations in getting quality across the deployment.

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Chapter 1

Introduction

1.1 Introduction

Thus, being a part of the practicum in the undergraduate program of study in the Bachelor of Science in Computer Science and Engineering programme in Daffodil International University, I interned as a junior SQA at Creative Soft Technology Ltd. (CST), which contributed an excellent journey in the company for me. I had concern in to working as an SQA and an opportunity knock on me to work in Creative Soft Technology Ltd That is the experience of which this report was amalgamated.

1.2 Rational

My internship would therefore help to foster the skills as well as to establish the confidence level. real-life scenarios are often complex and may have several answers, and the student must analyze the problem and come up with the best solution. They learn to solve problems step-by-step, think logically and devise efficient solutions as a result of participating in tasks that require problem solving. With the help of skilled practitioners and mentor ship, interns learn new ways of addressing problems and of thinking strategically, further improving their skills in dealing with demanding and complicated matters. It serves to learn business manners and communication skills which are the key to success.

1.3 Background

Here is the Report of the Internship that was taken at Creative Soft Technology Ltd. In my opinion, Creative Soft Technology Ltd, is one of the Best IT Company where I could complete my Internship as the IT projects here developed at a very fast pace and it is efficient enough to use technologies and tools which are more or less standard and accepted in the Software Industries. They are a reputable firm and I believe everybody knows the great works this firm has been conducting. The position I held throughout my internship is of junior SQA & Tester. This is the reason why I took two assignments The very nature of the tasks completed is general enough that each of them can be perceived as challenging and complex.

Before proceeding with working, there was a guideline which was previously called a test plan provided to me Earlier, I was able to effectively implement the test plan and finished all the works which the team manager assigned to me. The work comprised test case development and testing namely: functional testing, non-functional testing and UI testing. In regard to the format of the report, they will be arranged in accord with the Software Testing Life Cycle, or STLC. It starts with a preliminary investigation of the sources that were employed and why these sources were selected for me The scope of feasibility study then follows this will be followed by a study of the learning intentions.

Then lead to the works which will demonstrate the scenario and describe the methods that were used in the work. Last but not the least, the discussion of the work with Success Criteria.

1.4 Scope of the Study

This report provides difficulties that I encountered in accomplishing different tasks at my workplace. It also gives a clue about how I fit into the professional setting or how I relate with the working environment.

In the context of the environment of the communication, it is possible to state that it is rather impressive and rather inspired.

As for the nature and scope of the report, it belongs to the field of Software Quality Assurance & Testing. It is useful for the SQA & Testing related organizations that how to maintain the software's quality and how to test the software's according to the various standards in terms of STLC and so on. It also explains how one can take tests starting from the simple level up to the highly advanced level to improve on the SQA skills. To begin the fresh work with SQA, I am able to get training in the field of Test Case Development, Functional Testing, Non- Functional Testing and UI testing with the SQA team and acquired the knowledge of it by implementing with the SQA flow.

1.5 The Main objective of this Report

The purpose of the report is to; Main the goals of this paper include as follows; To satisfy the necessities of the Bachelor of Science program To demonstrate the learning and knowledge obtained throughout the internship period under the organization.

The other remaining objectives include the following

To apply for a small-scale test and try to implement as many ideas as possible and interact with the selected mentor.

To refine and filter the ideas and to only confer the idea that is going to be worked on and given to the output to the mentor. The increase of the acceptance chance by the project manager is done by testing the projects. It is essential to discover the bugs and write them down and then report them to the progress crew.

1.6 Summary of Report

In the report's synopsis, the mentor could select some of the workflow and allocate a short time allowed for the specialist to build up confidence and apply the solution with the person. Further to this, there was A stage of performance for the development of as much as possible basically with the required time and destination.

Chapter 2

Organization Overview

Creative Soft Technology Ltd. is an IT provider company aiming at offering high-quality ICT solutions with reasonable price and status of art fulfilling and rather user-useful web-based software development technology. Also, it is very famous for its SQA services that guarantee the software qualitatively highest level, suitable for users and acceptable for clients. There are many automation technologies related with Creative Soft Technology Ltd which IT and this ICT with manpower are a blend of perfect mixture.

2.1 Company Profile

Creative Soft Technology Ltd is one of the new generation companies that started its business recently. undefined And that led to being one of the leading IT providers since then. undefined established to offer software solutions like website development, digital marketing, and consulting services that cater to small, medium, large and blue-chip organizations. It also provides Information Technology Solution and Services to Local Governments, the Federal Government, and an Evaluation Stage for Private Agencies. By the end of 2022, it has accumulative over More than 50 projects completed with success, 20 clients and partners.

2.2 Service Areas

- **Software Development**
- **Mobile Application Web Advancement**
 - Web Development for Companies
 - Application on a Single Page
 - Development of Web Portals
 - Development of Web Applications
 - Development and Redesign of Websites

E-commerce Consultancy

- Creating a Business Plan
- Ensure Purchasing New Instruments and Procedures
- Boost Customer Contentment
- Enhancement of Employee Performance
- Raising Sales and Revenue

Digital Marketing Solutions

- SEO, or search engine optimization
- Search Engine Franchising
- Regional SEO
- Advertisement Direct
- Content Promotion

SQA & Testing

- Organized Test Plan
- Manual Testing
- Automation Testing
- Experienced Test Team
- 100% Client satisfaction

Social Media Management

- Customer Service
- Round-the-clock Customer Support
- Sales and Order Management
- Social Media Account Updates

2.3 Vision, Mission and Values

vision & Mission

The vision and mission statement of our company is a combination of its policy and our corporate motto of offering next generation information technology services. To take a vision, plan and build the majestic software development and the web development services to improve the chances of success in all its customers and offer the highest return on Investment to the customers.

The values are trust, quality and commitment.

2.4 Declaration

Creative Soft Technology Ltd would like to point out that all the information used in this letter are factual. We do hereby declare and affirm that to the best of our knowledge and information there is no any order apart from the Order made this Reynolds mrp Court dated 20/08/2014 which would hinder or stop either a person or firm or employees of the said company from performing the said function of entering into an agreement with any private or public organization within the country.

2.5 Major Clients

Creative Soft Technology Ltd. has supplied several IT enabled services to several Government departments and organizations. Among them some of them are from the foreign clients. Some of its recent clients include the following :

- ANSAR-VDP
- Bangladesh Krishi Bank
- Asia Youth Conclave
- United Nations Development (UNDP)
- Sainthood
- The World Bank
- Bangladesh Jauntily Sang sad
- Hotel Sea Cox

CHAPTER 3

ACTIVITY

Creative Soft Technology Ltd. regards me as key person and also provided me with best possible working environment. Interns are given the chance to delve into their understanding of the subject by acquiring and contributing to the compound of the team independently. Before that, I worked in the capacity of an Intern with the Software Quality Assurance Team at Creative Soft Technology Ltd.

3.1 Work Load

Regarding the knowledge-based taxonomy, each intern is categorized separately to ensure professional behavior and acquisition of the Kn wedge.. My first and the most important task as an intern in the SQA department was to grasp the concept of SQA; My second and significant role in the team dynamics was to assist the mentor check the project manually, look for the flaws in the project and list them down then submit to the mentor.

At the beginning, I was expected to acquaint myself with test case development, functional testing, non-functional testing, and UI design. I got the precised from the training session and then I implemented it in some live demo projects and feedback to my superiors.

I ought to have checked all my works; she pointed out where I went wrong. Last but not the least, I was privileged to be in some real life projects. My responsibilities were to jot down the test cases for a particular function, bug identification on some features and some similar kinds of works which straight away assisted my team leader to finish the projects.

To the next point, I was interacting with the mentor 2-3 times a week where I could present her with the work progress and its complexity.

I also show the topic and the implementation where I may get the answer.

Chapter 4

Road to SQA & Tester

After a few days, I started working as an SQA (Software Quality Assurance) professional and learned new software testing methods. I began by creating test cases, then moved on to functional, non-functional, and user interface testing.

I applied my recently acquired SQA skills daily and my mentor sent me some sample projects to work on. Following that, I was given the responsibility of working on certain real-world projects, including "Connect Goinnovir" and "Win Argo," where I gained valuable experience in a professional work environment. Additionally, I was assigned to the primary SQA team..

4.1 Test Case Development

One of my first challenges was to adapt Test Case Development. I learned the conditions and rules of writing test cases. Firstly, I used random test case templates. After practicing test case writing, when I got used to it, I created my own template on an Excel file. I practiced a lot and it helped me to understand how to analyze the Requirements, Identify Test Scenarios, Define Test Objectives, Determine Test Data, Create Test Steps, Specify Expected Results, Handle Test Preconditions, Include Post-Condition Checks, Review and Validate and Update and Maintain Test Cases.

4.2 Functional Testing

Functional testing has empowered me to delve deep into the requirements and specifications of the software, understanding the expected behavior of each feature. Armed with this knowledge, I can craft comprehensive test cases that cover a wide range of scenarios, including positive and negative test cases, boundary conditions, and exception handling. By executing these meticulously designed test cases, I can systematically validate the functionality of the software, identifying any deviations from the desired behavior. As I have practiced functional testing a lot, it covers the integration testing, system testing, acceptance testing and regression testing for me as well

4.3 Non-Functional Testing

Driven by my passion for software testing, I eagerly embraced the realm of Non-functional testing, equipping myself with its indispensable skills. Recognizing the pivotal role it plays in ensuring software quality and performance, I dedicated my efforts to mastering this vital aspect of testing. As I delved deeper, I discovered that Non-functional testing encompasses various critical areas, becoming an integral part of my testing repertoire. From performance testing to security testing, usability testing to scalability testing, I immersed myself in evaluating software's non-functional attributes. Through continuous learning and practical application, I have cultivated a comprehensive understanding of Non-functional testing's significance in delivering high-quality software.

4.3 UI Testing

In addition to my focus on Non-functional testing, I also delved into the realm of UI testing. At our company, we utilized the "Snag it" software to thoroughly assess the user interface of our software. I eagerly embraced the opportunity to practice UI testing on a demo project, immersing myself in the intricacies of this crucial aspect. With dedication and attention to detail, I meticulously scrutinized the interface, evaluating its visual aesthetics, responsiveness, and overall user experience. Under the guidance of my mentor, I honed my UI testing skills and gained a deep understanding of the importance of a seamless and intuitive user interface. The positive feedback and satisfaction expressed by my mentor further reinforced my passion and confidence in this area of testing, motivating me to continue expanding my expertise in UI testing.

4.4 Project-Based Works

I was assigned to a SQA team after my training session and I worked on two big projects where my tasks were to write test cases and bug reports of the projects. These two projects are Connect Goinnovir and Win Argo

4.6 Test Case

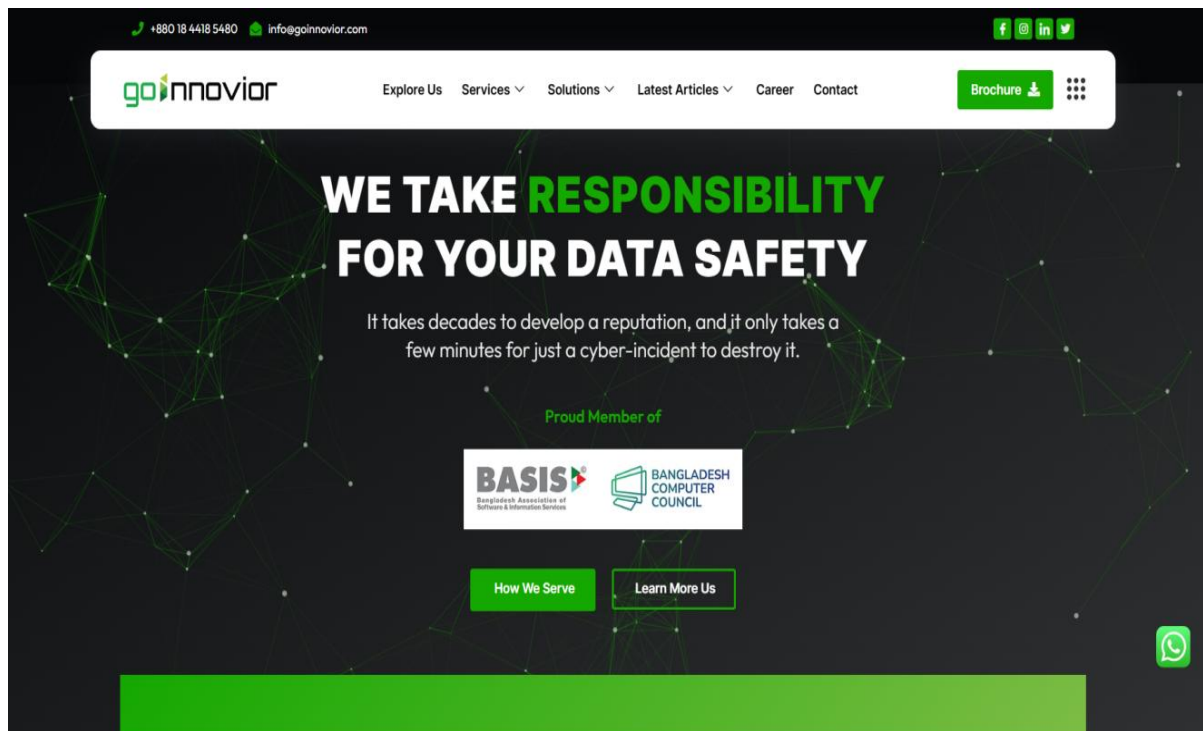


Figure 4.1 : GOINNOVIR IMITED

Test case for Connect Goinnovir -

	A	B	C	D	E	F	G	H	I
1	Test Case								
2	Project Name			www.goinnovior.com	Project Description	Corporate Website			
3	Project Manager			Sumsul karim sisir	Technology Used	Html,CSS,JS,React,Bootstrap,MongoDB			
4	Expected Starting Date			24 June 2024	Actual Starting Date	24 May 2024			
5	Expected Completion Date			24 June 2024	Actual Completion Date	24 June 2024			
6									
7	SL	Test Case ID	Page Name	Test Case Title	Test Data/Information	Test Steps	Expected Result	Data	Comment
8	1	TC0001	Verify Home Page Loading	Loading Page	N/A	1. Ensure The Internet Connectivity 2. Write the following url in Browser Search www.goinnovior.com	Landing Page should be Loaded Successfully	As Expected	Pass
9	2	TC0002		Top Header's Element For Desktop View(Mobile Number)	N/A	1. click on mobile number/Icon	If Should be take to the calling interface available in your local System	As Expected	Pass
10	3	TC0003		Top Header's Element For Desktop View (Email ID)	N/A	1.click on Email ID/Icon	If should take to the default email interface	As Expected	Pass
11	4	TC0004		Top Header's Element Desktop View (Facebook link)	N/A	1.click on Facebook Icon	If should take to the default Facebook interface	As Expected	Pass
12	5	TC0005		Top Header's Element Desktop View (Instagram Link)	N/A	1.click on Instagram Icon	If should take to the default Instagram interface	As Expected	Pass
13	6	TC0006		Top Header's Element Desktop View (LinkedIn Link)	N/A	1.click on LinkedIn Icon	If should take to the default LinkedIn interface	As Expected	Pass
14	7	TC0007		Top Header's Element Desktop View (Twitter link)	N/A	1.click on Twitter Icon	If should take to the default X interface	As Expected	Pass

Figure 4.2 : Goinnovior test case

Student Sign-Up test case for Connect Goinnovir -

	A	B	C	D	E	F	G	H	I
1	TEST CASE ID	TEST SCENARI	TEST CASE	PRE CONDITIO	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	STATUS(PASS/FAIL)
2	TC_001	Sing Up Functionality for Student	1.Valid Name 2.Valid Mobile Number	User will be able to enter the Sign Up Page	1.Enter Valid Name 2.Enter Valid Mobile number 3.Enter Valid Password 4.Enter Valid Confirn Password 5.Click	1.Sumsul karim sisir 2.01729441554 3.sisir1234 4.sisir1234 5.N/A	Student Account Created Successfully	User Created	PASS
3	TC_002	Sing Up Functionality for Student	1.Valid Name 3.Valid Mobile Number	User will be able to enter the Sign Up Page	1.Enter Invalid Name 2.Enter Valid Mobile number 3.Enter Valid Password 4.Enter Valid Confirn Password 5.Click	1.sisir## 2.01729441554 3.sisir1234 4.sisir1234 5.N/A	Will Show Invalid Name	Not Showed Invalid Name	FAIL
4	TC_003	Sing Up Functionality for Student	1.Valid Name 4.Valid Mobile Number	User will be able to enter the Sign Up Page	1.Enter Valid Name 2.Enter Valid Mobile number 3.Enter Valid Password 4.Enter Valid Confirn Password 5.Click	1.Sumsul karim sisir 2.01729441554 3.sisir1234 4.sisir1234 5.N/A	Will Show Invalid Phone number	Not Showed Invalid Phone Number	PASS
5	TC_004	Sing Up Functionality for Student	1.Valid Name 5.Valid Mobile Number	User will be able to enter the Sign Up Page	1.Enter Valid Name 2.Enter Valid Mobile number 3.Enter Valid Password 4.Enter Valid Confirn Password 8.Click	1.Sumsul karim sisir 2.01729441554 3.sisir 4.sisir 5.N/A	Will Show Enter 6 Digit Password	Showed Enter 6 Digit Password	PASS
6	TC_005	Sing Up Functionality for Student	1.Valid Name 6.Valid Mobile Number	User will be able to enter the Sign Up Page	1.Enter Valid Name 2.Enter Valid Mobile number 3.Enter Valid Password 4.Enter Invalid Confirn Password 5.Click	1.Sumsul karim sisir 2.01729441554 3.sisir1234 4.sisir1 5.N/A	Will Show Password Not Matching	Showed Password Not Matching	PASS
7	TC_006	Sing Up Functionality for Student	1.Valid Name 7.Valid Mobile Number	User will be able to enter the Sign Up Page	1.Enter Invalid Name 2.Enter Invalid Mobile number 3.Enter Invalid Password 4.Enter Invalid Confirn Password 5.Click	1. sisir## 2.01729441554 3.sisir 4.sisir1234 5.N/A	Cannot Sing Up	Cannot Sing Up	PASS

Figure 4.3 : Student Sign-Up test case

Bug report of Goinnovir -

A	B	C	D	E	F	G	H			
Project Name	Goinnovior limited									
Module Name	www.goinnovior.com									
Test By	Sumsul karin sisir									
Designation	Management Train-Software Quality Assurance									
Date	June-4, 2024									
Report ID	TC_goinnovior_01	Report Description	Verify to all functional testing on web and mobile responsiveness							
Table1										
Tr	Task Sl.NO	Section/Place	Description	Priority	Status	Tr	Dev Name	Dev-Statu s	Tr	Screensho t/Videos
2		Check Navigation Menu	this navigation menu nine dots are empty.	Medium	New Bug		sisir	✓		https://drive.google.com/file/d/1NQ20Q9sDet3Q3p7deXW-tTSYzN5zpJKd/view?usp=sharing
3		Functional Links and Button	1. The home pages show that "How we serve" button. this button are not redirecting the another pages. 2. Button is not functional	High	New Bug		sisir	✓		https://drive.google.com/file/d/1o7FtQ0YQbq3x6KVz0FT07Zea2tMu1rle/view?usp=sharing
5		Functional Links and Button	1. The home pages show that "Learn More Us" button. this button are not redirecting the another pages. 2. Button is not functional.	High	New Bug		sisir	✓		https://drive.google.com/file/d/1o7FtQ0YQbq3x6KVz0FT07Zea2tMu1rle/view?usp=sharing
6		Home > Contract > Form	Email feild Input all email are accepted . there are no valid or invalid mail are checking.	High	New Bug		sisir	✓		https://drive.google.com/file/d/19oQk1GqJd-CBNWpStf_KYqTGTBsTfD4Z/view?usp=sharing
7		Home > Contract > Form	Official Website Email feild Input all email are accepted . there are no valid or invalid mail are checking.	High	New Bug		sisir	✓		https://drive.google.com/file/d/1vas7HNSeQhJzU6ChuANLXFxEIrdE4vuQ/view?usp=sharing

Figure 4.4 : Bug Report for Modules

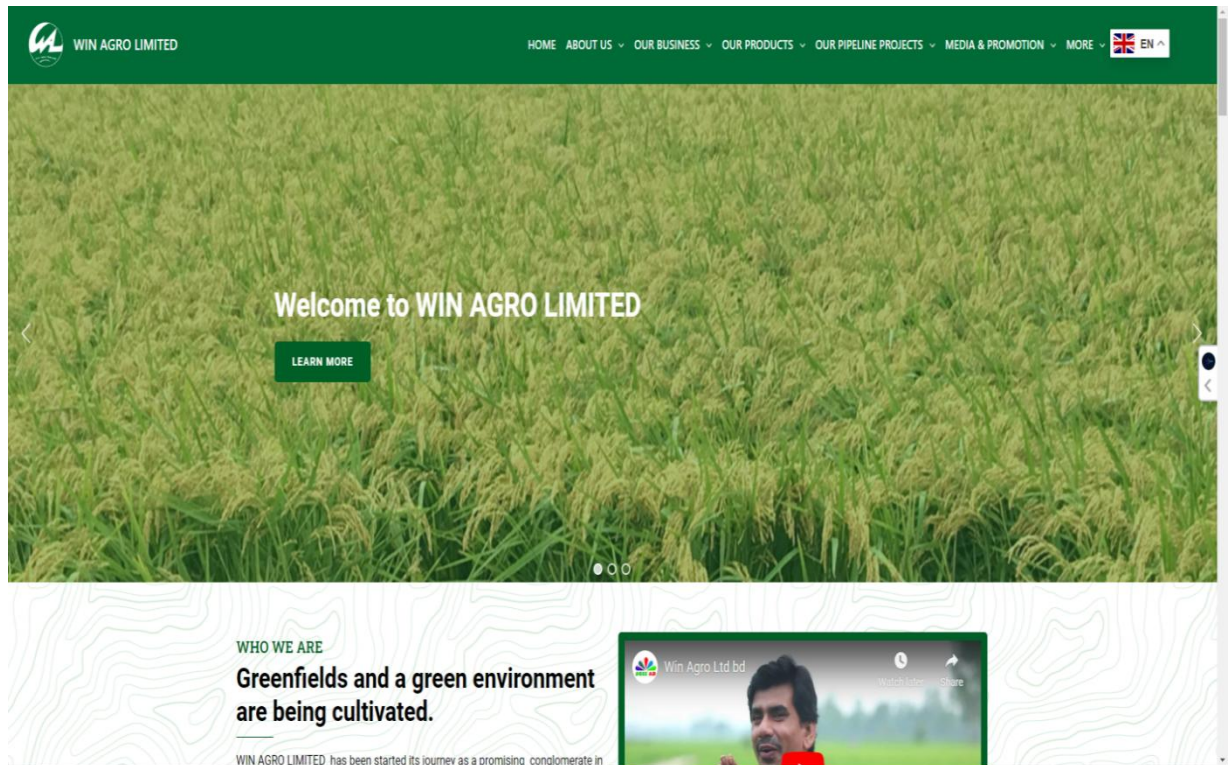


Figure 4.5 : WIN AGRO LIMITE

A	B	C	D	E	F	G	H	I	J
Test Case									
Project Name			www.winagrolimited.com	Project Description		Corporate Website			
Project Manager			Sumsul karim sibir	Technology Used		Html,CSS,JS,React,Bootstrap,MongoDB			
Expected Starting Date			24 June 2024	Actual Starting Date		24 May 2024			
Expected Completion Date			24 June 2024	Actual Completion Date		24 June 2024			
SL	Test Case ID	Page Name	Test Case Title	Test Data/Information	Test Steps	Expected Result	Data	Comment	
1	TC0001	Verify Home Page Loading	Home Page	N/A	1. Ensure The Internet Connectivity 2. Write the following uri in Browser Search https://winagrolimited.com/	Landing Page should be Loaded Successfully	As Expected	Pass	N/A
2	TC0002		Top Header's Element For Desktop View(Insecides)	N/A	1. click on Insecides	If Should be take to the calling interface available in your local System	As Expected	Pass	N/A
3	TC0003		Top Header's Element For Desktop View (Herbicifes)	N/A	1.click on Herbicifes	If should take to the default Herbicifes	As Expected	Pass	N/A
4	TC0004		Top Header's Element Desktop View (Agro Machineres)	N/A	1.click on Agro Machineres	If should take to the default Machineres	As Expected	Pass	N/A
5	TC0005		Top Header's Element Desktop View (processed Food)	N/A	1.click on processed Food	If should take to the default rocessed Food	As Expected	Pass	N/A
6	TC0006		Top Header's Element Desktop View (Gallary)	N/A	1.click on Gallary	If should take to the default Gallary	As Expected	Pass	N/A
7	TC0007		Top Header's Element Desktop View (Fungicides)	N/A	1.click on Fungicides	If should take to the default Fungicides	As Expected	Pass	N/A

Figure 4.6 : WIN AGRO LIMITE test case

Bug report of Win Agro-

	A	B	C	D	E	F	G	H	I
1	BUG ID	MODULE	URL	ISSUES	DESCRIPTION	FEEDBACK	ATTACHMENT	SEVERITY	PRIORITY
2	BI_001	Home	WIN AGRO LIMITED – Win Agro	Button not working	There is a Learn More button in the home page. But it's not working	It should work properly.	https://paste.pics/c3ee9bcb0	Major	Medium
3	BI_002	Insecticides	https://winagrolimited.com/insecticides/	Some product images are missing	Some of the product images are missing. Though, they are listed.	It should show all the products title and images	https://paste.pics/95ff0f1213	Major	High
4	BI_003	Herbicides	Herbicides – WIN AGRO LIMITED	Some product images are missing	Some of the product images are missing. Though, they are listed.	It should show all the products title and images	https://paste.pics/bb49153310ef02cdfaeb2e4aaafcc80	Major	High
5	BI_004	Fungicides	Fungicides – WIN AGRO LIMITED	Some product images are missing	Some of the product images are missing. Though, they are listed.	It should show all the products title and images	https://paste.pics/a7f78b9f49a38733ff48cb96d000eff9	Major	High
6	BI_005	Agro Machineries & Equipments	https://winagrolimited.com/agro-machineries-equipments/	Heading mismatch	Menu text is Agro Machineries & Equipments but in Heading it show only Agro Machineries	Menu text and Heading have to be same	https://paste.pics/a7f78b9f49a38733ff48cb96d000eff9	Minor	Low
7	BI_006	Processed Foods	https://winagrolimited.com/processed-foods/	Blank page	This page doesn't have any content yet.	It should have some content	https://paste.pics/dd106c50cb5c548924ccda583bf419db	Minor	Medium
8	BI_007	Gallery	https://winagrolimited.com/gallery/	Blurry Hero image	It also shows blurry when I checked the Gallery Page Responsiv	Hero image should have Sharp	https://paste.pics/606c6fdab76b7dfdcac355defae2ac9	Major	High

Figure 4.7 : Bug report Win Argo

Test Strategy – WIN AGRO Ltd

WIN AGRO LIMITED

Test Strategy

WIN AGRO LIMITED is an incorporation company situated in India having its formation under Companies Act, 2013 therefore categorized as a Private Limited Company with incorporation date 29-08-2014. Thus, encouraged by such hard work of dynamic a group of remarkably experienced enthusiastic Argo Entrepreneurs has come forward to establish a conglomerate called WIN AGRO LIMITED. As likely to be estimated that it is constituting forty percent of Argo Cereal, Vegetable, Pulse, Oil crop organization suffering, huge losses of crops as they are frequently attacked by insects and pathogen, and their production capacity being restricted due to unavailability of major & macro & micro plant nutrients

Revision History

Date	Version	Author	Description
11.03.2024	4.1	Sumsul ksrimsisir	Test scheduling & Overview
13.03.2024	4.2	Sumsul ksrimsisir	Test Cases and bug reports
14.03.2024	4.3	Sumsul ksrimsisir	Performance testing
16.03.2024	4.4	Sumsul ksrimsisir	Re-testing

All these activities are reviewed and signed off by the business team, project management, and development team

Scope

The purpose of this document is to provide the reader with the full list of goals of the project. We will also evaluate the probability and time required for a trial of the application. This will also put into perspective as to who is doing what and when, and how much more work is still expected to be done during this testing phase. It derives data from “WIN AGRO LIMITED-COMPANY”. Therefore, according to the information specified, the mentioned company has many primary stakeholders. Therefore, this document provides general information about the testing and development of this.

The document will be used in: business team, developers and project manager and testing teams in Business. Finally, all the quality aspects of this document will be authorized by the QA lead, Developers lead, and Project manager after weighed both the perceived benefits and cost. First of all, the business analyst will discuss with the customer – the one that ordered it. The customers may not be technical, thus the BA will classify and present the client’s requirement in a technical manner. BA can define an SRS for making it easy for the tester as well as the developer team to work with. Then in the next step the developer will compile and execute the complete required scene or scenario to develop as per the requirement. For the purpose of ensuring validation, the tester team will carry out manual testing as well as automation testing. Deriving the test cases as well as being sure that the strategies developed match with the need or requirement. During the final phase of

development, the tester team will be on the lookout for faults and will notify the developers. Finally, when all the testing phase had been exercised, the project manager in consultation with the team will hand over the project to the clients. This is the addition that is going to be done for the test overview on the 10 of April. Two days later, the test cases with the bug report were created. Undefined

Approach Process of testing:

In this project, first, an intervention of the manual testing is performed. We also integrated test cases and bug reports in business processes, as the following slide demonstrates: The responsive asset has then been used to evaluate the performance between the web and mobile versions. I pointed several more UI issues I identified and there were some numerous also. We provided a detailed description of our situation and proceeded to report directly to the developer unit with the intention of having everything sorted out as quickly as possible.

Testing level:

This is actually a situation where this person did not perform the unit testing.. Functionality testing would be done by the programmer as well as verified by the Senior Coding head of the team. We are not the developer and for this, we also do not receive other source code, layouts or designs etc. For this reason, this project failed to test the Unit Testing

SYSTEM/INTEGRATION

The test really involves many individuals, but mainly the test manager and the development team leader, who will be sometimes supported by other developers. We are not pertaining to development lot ad do not get to view source code either. Thus, The SYSTEM/INTEGRATION Testing is absent from this.

Acceptance testing

includes the testing team, the QA department, and the end-users as they engage in testing to establish that the developed system works as intended and in accordance

with the requirements set beforehand. Acceptance testing is one type of box testing. Allow me to pinpoint another important factor: We, as a QA team, cannot perform anything other than Acceptance testing. The testing will be to check if every functionality is functioning or not, if the GUI is user friendly or any other thing.

Roles and responsibilities:

A work breakdown structure or WBS is a tool used in project management where a complex project is divided into smaller parts in order to complete the large project with multiple parts. WBS organizes a project by dividing it into more manageable parts while allowing integration of scope, cost and delivery.

WBS is included as an addition to this test strategy document. This clearly indicates that many employers were involved in this project as it was being completed. Starting from the junior test engineer to the senior all the workers worked their level best and all were motivated. In this connection with Their brilliance, our project was accomplished on time.

Junior test engineers obtained employment in the media and promotion industry. Close to five junior testers participated in the completion of This undertaking. However, most of the testers were from mid level QA engineers. They were the ones who were supposed to do most of the work. The senior QA engineer optimizes the career, communication, and Login functionalities.

Types of Testing:

Load Testing: Load testing is mainly carried out to see how the system performs under normal and maximum load and whether it can withstand high loads if clients are many as most of the time callers are many. This tool is most often applied when the SD process is almost over, for instance, when the software is almost ready.

Security testing: Security testing is a process of uncovering the vulnerabilities of an information system's security procedures that safeguard data and the capability of the system to function in the manner which was planned.

Performance testing: A subcategory of system testing where the focus is put on a given system's ability to function and remain stable under a certain load. If needed, performance tests are employed in a bid to measure speed, dependability, stability and size of the application.

Indeed, our project includes performance testing in some of the forms mentioned above. Where we set the check points to decide how the web page for win-ago appears in the mobile version and in the web version. This response posed some challenges but virtually all the challenges involved with were in the domain of the UI. It has thus been advantageous in such a regard to build on that possibility.

New defect entry, re-testing, defect prioritization, Regression Testing and Test closure The tester team mostly did the manual testing as well as automation testing to confirm the validation. Out of all the steps, this is one that involves coming up with test cases as well as planning in relation to the requirements of the software in question. During the development period is over, the testers continued to look for flaws and submit them to the developer.. Then the developer rectifies the various flaws and passes the application back to the tester team. This is the time of regression testing for the tester team. After all the testing processes to be done then the project

will in return be delivered by the project manager and team to the clients.

Chapter 5

Challenges

Employment at Creative Soft Technology Ltd benefits me for the improvement of my work-related background and start an experience career. This assists me to have confidence and improved ways in dealing with situations.

5.1 Academic Preparation

This theoretical knowledge gives me confidence in the SQA field, and experience in fast problem solving.

5.2 Identified

The major study was to go with the right step and create and discover how to deal with a simple issue in the term. For the purpose of obtaining and gathering development architecture program that may build professionalism.

5.3 personal skill Technical skill :

Therefore, I have been benefited from the internship program to grow from SQA & Tester for a new comer to advanced level. It was not very much conversant with the terms of these new technologies. However, this program assists me in preparing to take and practice concepts and engage in real-life projects as a SQA. The internship programme also avails me the opportunity to become conversant with and even gain practical experience on the big project software and thus boosts my confidence. I did not possess even a single experience in testing when I joined this organization and now I am full of testing skills.

Analytical Skills:

Analytical skill allow me to provide a quick solution and thinking to other challenges that arises next. I have seen a massive boost in my analytical skills while on the internship and got to learn new things.

Interpersonal Skills:

My communications are also found to be in a balanced kind as I was able to work with the people in various fields. This allowed me to interact with many other employee and coworkers who I would not have interfaced with normally.

Chapter 6

Acquired Knowledge

I began my internship with Creative Soft Technology Ltd hence becoming new to the environment. But I was so much the focused and maintained I said I will work with the mentor. For instance, few days ago it was very hard to deal with environment, but thanks to my mentor, I've learned how to overcome it.

6.1 Implications to University's Internship Program

To start with I would like to extend my special thanks to the faculty of computer science and engineering for offering an opportunity of an internship in the course of graduation and allowing me to be a part of this organization and feel the taste of software-focused works and my fascination with them. I will also be grateful to the Faculty of Computer science and engineering and the Office of Placement and Alumni , DIU for having helped me in arranging this kind of opportunity where I have the opportunity to select the area of my preference and get an apprenticeship there.

6.2 Effects on Personal Skills

Internship has imparted advantages in my first professional life. That challenge begins as soon as one start to learn SQA because it was too hard for me I spend more hours but could not find the proper way. But when I first begin to engage collaborating with the mentor, situation become easier to me and I believe in myself, all of them are corporation and problem solving employees. I must say that the workflow was quite astonishing and henceforth I was almost fully engaged and quite excellently handled.

6.3 Ability to learn

Computers made me a very professional employee because of its attractive kind to me. Of particular interesting about such changes is the fact they rob human beings of their ordinariness. After mastering computer software and getting to know the testing and the processes it includes, It has become my obsession

6.4 Dependability

From the time I began learning and working with them, they began to trust me and little by little the mentor was satisfied with the work I do. Hence, she assigned me some small assignments and also the liberty to attempt some individual assignments in order to practice on test case writing, functional, non-functional, UI testing.

I started coming up with ideas and feedback to my mentor and this assisted in enhancing my knowledge in the SQA sector. I also expect that such dependability will allow for the development of a long term business relationship between Creative Soft Technology Ltd and DIU.

6.4 Initiative

When I had any queries I independently tried to solve it and if I couldn't solve it, the mentor assists a lot in it and also tells the right way who can do it in a shorter time period. In the hope that such an aid was actually productive towards helping me in acquiring awareness.

6.5 Judgment

So it cannot speak within a day or within a month. It can explain predictions as to how it can be built up depending on the quality and focus. While practicing and experimenting with some of the projects I was working on, I attempted to cultivate my judgement skills.

Chapter 7

Concluding Statements

7.1 Summary

Creative Soft Technology Ltd. can be mentioned as one of the most recognizable and the biggest IT companies. They acknowledge that their customer is satisfied, and offer services they feel are acceptable in the global market. Presently, I work for Creative Soft Technology Ltd. where I serve in the capacity of Software Quality Assurance & Testing.

7.2 Recommendations for Future Strategic Actions

This gives me experience towards a career of being a SQA & Tester which is useful in other jobs since it is recommended.

7.3 Organization

The previous company I worked for before joining Creative Soft Technology Ltd was not concerned with teaching me how to communicate professionally and I never knew how to manage the workflow. But after being in the organization, my mentor assisted me in overcoming it. While doing the work, the whole process was fun when being assisted by the mentor. Logically speaking, everybody is a pleasure to work for Creative Soft Technologies Ltd.

7.4 University

An internship benefits the student., to turning into of being professional. It can force a student into charting out a plan as to how the career could be, the career which one wants to pursue. Here, let me state for the record that I am appreciative of the Institute of Information Technology for giving me the opportunity to be ready for the workforce. Thus, I have ensured myself that I am capable of handling the challenges that are to come in the world of Information Technology.

7.5 Professional

Internships are indeed beneficial for persons to appear professionally and for refining their existing knowledge and skills in the actual world job sector. Nevertheless, some of them might be occurring periodically and thus, the levels of professionalism and dedication shall be quite constant.

That is why I believe that this information, in this modern period where competition is tight more especially for professionals, may help the student with the plethora of information available.

SQA must know how to create their career, and I found out how to get along with other professionals in the various fields of computing.

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