American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science &Technology (FST)

SPRING 22-23

Section: F

Software Quality Assurance and Testing

DARAZ

A Report
By

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Software Test Plan

for

<DARAZ >

Version 1.0 approved

Prepared by <Group-3 >

<**American International University Bangladesh**>

<16 May 2023 >

Checked By Industry Personnel

Name:

Designation:

Company:

Sign:

Date:

Table of Contents

Revision History

Revision	Date	Updated by	Update Comments
0.1	2023.05.12	Arifa akter eva	First Draft
0.2	2023.05.13	Abrar Hamim	2nd draft
0.3	2023.05.14	Md. Juniadul Islam	Final Draft

1. TEST PLAN IDENTIFIER: DARAZ-MTP01

2. <u>REFERENCES</u>

- https://www.daraz.com.bd/
- Software Testing and Quality Assurance – Theory and Practice - Kushinagar
- Naik & Priyadarshi Tripathy
- https://www.selenium.dev/

3. <u>INTRODUCTION</u>

Background to the Problem

Online shopping has revolutionized the retail sector by bringing accessibility and convenience to customers all over the world. But there are some difficulties in this field that call for a closer look in order to completely understand the issue at hand. The restrictions and problems related to the online buying experience are the basis of the issue. Due to the prevalence of online shopping and its major effects on customers, businesses, and the entire retail ecosystem, it is crucial to take this issue into consideration. Numerous issues and inefficiencies that affect both customers and businesses have been brought on by the explosion in internet purchasing. Data theft and other security and privacy violations, as well as fraudulent activity, erode customer confidence in online transactions. Uncertainties about a product's quality, authenticity, and suitability arise from the lack of direct contact with it. Additional obstacles to internet shopping include delivery delays, logistical difficulties, and poor customer service. Understanding the context and importance of these issues lays a strong foundation for creating solutions that tackle the underlying issue and enhance the entire online purchasing experience. The internet retail environment can prosper, helping both customers and businesses, if these problems are collectively addressed.

Solution to the Problem

An application called Daraz, which offers different types of product like-household products, accessories, fashion and lifestyle products, sports, electronic products, was created to address the issue of finding products online. Additionally, it delivers ice cream, snacks, frozen seafood, and rice to your house. For the Daraz app, both time and life are secure. Open a Daraz account first, then place your order from wherever you are Daraz accept the order and promptly send the requested item to the customer. They provide the product to the customer within short time and gives better services to their customer. Simply choose the items and place your order. Nowadays Daraz is the best online shopping website and is secure for customers.

4. REQUEIREMNT SPECIFICATION

4.1 System Features

1. System Login:

1.1. User Should have the opportunity to also buy without login to shop comfortably.

1.2. If the username and/or password is incorrect, logging in using a one-time password (OTP) will be available.

Priority Level: High

Precondition: The user must have an account.

1.3. The software shall allow users to log in or register using their username and password.

1.4. User Should have the opportunity to rearrange the password when they forget.

2. Product Tracing and pick-up point:

2.1. User should track the product location.

2.2. User should choose the pick-up point.

Priority Level: Medium

Precondition: User must have a valid account and order a product

3. Return product:

3.1. User should be able to return the product.

Priority Level: Medium

Precondition: User must have a valid account and order a product

4. Review Product:

4.1. User should justify and verify the product.

Priority Level: Medium

Precondition: User must be logged in to Daraz account

5. App download in all Platform:

5.1. User should have the opportunity to download the app on all platforms.

Priority Level: Low

Precondition: User must have internet connection

6. International site check:

6.1. International users should be able to use the app comfortably from-Nepal, Sri Lanka, Pakistan, Myanmar

Priority Level: Medium

Precondition: User must be logged in to Daraz account

7. Edit Address:

7.1. User should be able to edit the address.

Priority Level: Medium

Precondition: User must be logged in to Daraz account

8. Help Center:

8.1. User should get help with the order.

8.2. Help center should be able to get help with shipping and delivery.

8.3. User should get help to know categories.

Priority Level: Medium

Precondition: User must be logged in to Daraz account.

9. Order History:

9.1. User should be able to cancel the order list.

9.2. In the order list user can see when he orders.

9.3. User can check whether he paid for the product or not.

9.4. The user will be able to see the order history from the order list.

Priority Level: Medium

Precondition: User must be logged in to Daraz account.

10. Valid payment method:

      10.1. User can pay from mobile banking,Nagad valid OPP,Bkash valid OTP,Rocket valid OTP

      10.2. User should know about the valid and invalid card number.

      Priority Level: High

      Precondition: User must be logged in to Daraz account and payment an order bill.

11. Logout

      11.1. User must login the website

      11.2. Then click the logout icon.

      Priority Level: High

      Precondition: User must be logged in to Daraz account.

12. Seller chat

      12.1. User can ask question about their product to the seller.

      Priority Level: Medium

      Precondition: User must be logged in to Daraz account

4.2 System Quality Attributes

Usability:

Usability is determined by how simple a system is to use and how simple the steps are to use it.
The application should be simple for users to learn how to operate, and the user interface should be intuitive so that users can find what they need quickly.

Daraz's user interface, for instance, is very welcoming. The user may quickly find what he needs and place a purchase in 2-3 minutes thanks to the basket, categories, and personal information being right in front of him.

Efficiency:

The system should be able to handle several concurrent user sessions and a high number of users.

For instance, at the same time Daraz can handle thousands of orders.

Interoperability:

The system ought to interact with many payment gateways as each delivers a payment option.

For example, after completing an order, Daraz provides online transaction services such as BKash, Nagad and even bank payments using card. The user can easily select the option from the interface and is redirected to the banking software system.

Reliability:

It gauges the software's adaptability to various situations and environments. The performance and accuracy of the system shouldn't be impacted by the environment change.

For instance, users of Daraz may place an order using their computer, smartphone, or laptop. Each person's and each device's resolution and model will be different. As a result, the user's experience won't be impacted by the environment change.

Security:

For e-commerce websites, security and integrity are among the most crucial characteristics. It makes sure that hackers cannot access the user's information and that the user's data is not accessible to third parties.

For instance, the address of a user is maintained in Daraz's database and is important information that must not be disclosed to anyone who wishes to damage the person.

Performance:

It is based on how long it takes the system to complete a specific task. The system should, for instance, employ CPU, memory, and disk space efficiently. If the system is inefficiently consuming all of the resources, the user will notice a drop in performance. An inefficient system cannot be used with real-time applications.
For instance, the search bar on the Daraz program occasionally crashes, demonstrating how poorly the system is designed. Any activity should not cause the system to crash.

Portability:

The degree to which a system or its components can be transported from one hardware, software, or another environment is referred to as software portability.

For instance, the system of Daraz works well as a mobile application and as well as a web application.

Maintainability

There will be a need to update a system or fix a flaw as technology develops, therefore an application will have different versions as the system does. These iterations ought to be simple to create and straightforward to maintain. It is simpler and less expensive to add code to an existing system if the system is modular. If not, it becomes impossible to maintain the dependencies and the system would crash.

For instance, the system should be maintainable so that the developer can simply alter or add code without disrupting the entire system. As the name suggests, the daily deal is maintained daily, so the developer may want to change the code or the way it runs.

Testability

Bugs and functionality should be simple to detect and test in the system. The developers must ensure that the code is well-organized and effective for a tester to test new features in order for a system to be tested effectively.

For instance, trying out the " Order successfully placed ".

Flexibility

It is a quality that guarantees the software application can readily adapt to changes and developments in the future. The system ought to be adaptable enough to fit into other third-party components.

Correctness

The functional specifications and requirements must be adhered to by the application. The navigational characteristics, internal computations, and system services are among the functional requirements.

When a user chooses an item to view, for instance, the user should be directed to the appropriate link and directions, and when the user chooses an item to add to cart, it must be expected that the correct item and the desired quantity has been added to the cart and that the exact calculation of the total price, as well as the delivery charge, is displayed to the user.

5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts. For example:

o PC based spreadsheet analysis applications using Reassigned Sales data. Because these applications are completely under the control of the customer and are outside the scope of this project. The necessary data base format information will be provided to the customers to allow them to extract data. Testing of their applications is the responsibility of the application maintainer/developer.
o Unable to test database related testing issues. Though, we don't own this application and we are following white-box testing
o Payment feature is not valid with real-life testing

6. TESTING APPROACH

6.1 Testing Levels

o The testing for the DARAZ will consist of only System testing. Since the source code is not available of the project UNIT testing cannot be performed along with INTEGRATION testing. Additionally, due to time constraints users cannot be gathered for ACCEPTANCE testing. Thus, only SYSTEM testing will be performed by a dedicated team of testers.

o SYSTEM A devoted team of testers will conduct the testing. The project having been completed

Before the product was launched, this testing, which was comprehensive and integrated, was done to look for flaws in the system's external interface. The test will be run using automated testing techniques. The team will schedule a meeting to go through the overall testing strategy, distribute the test cases, and then execute the test cases and provide the results.

6.2 Test Tools

The only test tools to be used are the standard AS/400 provided utilities and commands.

- o Selenium IDE: Selenium IDE records multiple locators for each element it interacts with. If one locator fails during playback, the others will be tried until one is successful. We used the chrome extension version to serve our purpose.
- o Chrome driver: Selenium IDE can be extended through the use of plugins. We installed its extension in order to perform our test in Chrome browser.

6.3 Meetings

The meetings were conducted for 6 days. The summary of the each of the meetings are given below:

Date	Time
5/5/23	8pm-10pm
7/5/23	9pm-10pm
11/5/23	4pm-5pm
12/5/23	5pm-9pm
14/5/23	6pm-9pm
15/5/23	5pm-2am

7. TEST CASES/TEST ITEMS