American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science &Technology (FST)

FALL 22-23

Section: G

Software Quality Assurance and Testing

Daraz

A Report submitted
By

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Under the supervision of

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Software Test Plan

for

<Daraz>

Version 1.0 approved

Prepared by <Group-5>

<AIUB>

<26/12/22>

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Revision History

Revision	Date	Updated by	Update Comments
0.1	12/12/22	MD. Rakib Hasan	First Draft
0.2	15/12/22	Mahmud Iftekhar Asef	Second Draft
0.3	15/12/22	MD. Irfanur Haque Ifad	Third Draft
0.4	16/12/22	Partha Roy	Fourth Draft
0.5	18/12/22	Partha Roy	Fifth Draft
0.6	23/12/22	MD. Rakib Hasan	Sixth Draft
0.7	26/12/22	MD. Irfanur Haque Ifad	Final Draft
0.8	26/12/22	Mahmud Iftekhar Asef	Revised

1. TEST PLAN IDENTIFIER: Daraz_1.1.3

2. REFERENCES

- Software Quality and Testing Course Materials
- Software Requirement Specification (SRS) Document
- Daraz Website
- https://www.selenium.dev/documentation/
- Software Testing and Quality Assurance – Theory and Practice - Kshirasagar Naik & Priyadarshi Tripathy

3. INTRODUCTION

Background to the Problem

Due to the lack of a consolidated online marketplace, it may be challenging for clients to find what they are looking for. Since there is no centralized pricing structure, comparing rates from various merchants can be challenging. In order to discover the products they want, customers might have to get in touch with several sellers. Before Daraz, there was no assurance of the caliber of the goods and services. With several sellers, it might be challenging to keep track of orders and payments. With various merchants, it was challenging to manage customer ratings and feedback. Customers were puzzled by the lack of pricing and shipment transparency. With many sellers, there was no way to track deliveries and returns.

Solution to the Problem

Daraz is an online shopping platform that provides a convenient and secure way for customers to shop for a variety of items. It provides a convenient payment system that enables users to pay securely with their credit cards or other payment methods, and it offers a wide choice of things from electronics to clothing. Its goal is to make online shopping safe, convenient and enjoyable for customers through its mobile app and website. Daraz also offers services such as cash on delivery, free returns and discounts.

Customers can seek assistance from the website's customer service department if they have any queries or issues with their purchase. Customers at Daraz can also take advantage of discounts and a reward program to save money on their purchases. Daraz is a fantastic location to shop online because of its convenient and secure payment system, selection of goods, and customer care support.

4. REQUEIREMNT SPECIFICATION

4.1 System Features

4.1.1 Home

Functional Requirements:

- On home page all link can be check.
- To access a link the software shall allow users to log in first.
- By clicking on link can go in other page

Priority Level: Medium

Precondition: N/A

4.1.2 OTP Check

Functional Requirements:

- When doing registration, the software will send an OTP to sellers.
- For getting OTP mobile number need to be provided.
- Provided mobile number need to be correct and need to be submitted by clicking submit button.

Priority Level: High

Pre-Condition: The mobile number must be correct and click on the submit button.

4.1.3 Seller registration

Functional Requirements:

- First need to click on the registration.
- Need to provide all information with mobile number.
- The software will send an OTP to the mobile number

Priority Level: High

Pre-Condition: The mobile number and OTP must be correct.

4.1.4 User login Session

Functional Requirements:

- The website shall allow users to login with their given phone number, email and password.
- If the phone number, email and/or password has been inserted wrong the user can reset the password with.
- From the help of his email, a random verification code will be generated by the system to retry login.

Priority Level: High.

Precondition: User has valid user id and password.

4.1.5 User Login Validation Session

Functional Requirements:

- Enter valid Phone Number and Email.
- Enter valid Password.
- If the phone number, email and password is wrong wont login the site.

Priority Level: High.

Precondition: User has valid user id and password.

4.1.6 User Registration Session

Functional Requirements:

- User has to click on the “Sign Up” option
- If user is new member he can connect using Facebook/Email.
- After clicking on create an account, user can request to enter your phone number and slide to the send and wait to receive the verification code
- Then after checking phone or mail and enter the verification code
- User has to enter password
- Then after entering information registration will be successful

Priority Level: High.

Precondition: User must have valid phone number.

4.1.7 Report abuse

Functional Requirements:

- Users can report any comments as abusive or problematic
- Users can write additional description

Priority Level: Medium

4.1.8. Wrong Coupon

Functional Requirements:

- There are countless Daraz discount vouchers and coupon codes to shop from Daraz with a more discounted price.
- If use wrong coupon its doesn't work
- Only valid coupon is word for order in Daraz shopping.

Priority Level: High.

Precondition: User has to add to cart first.

4.1.9 Forgot password

Functional Requirements:

- User has to go to forgot password
- Enter email address or phone number
- After verifying everything user can change new Password.

Priority Level: High.

Precondition: User Must Have an account

4.1.10 Edit profile

Functional Requirements:

- After logging in user can edit profile
- User can Manage account by clicking to my profile
- Then user can update profile and save changes

Priority Level: High.

Precondition: User Must Have an account

4.1.11 Change password

Functional Requirements:

- User can change password by logging into account
- User has to go to manage account and click change password
- By entering new password user can change but for that user has to provide old one.

Priority Level: High.

Precondition: User Must Have an account

4.2 System Quality Attributes

1. Performance: The system should be able to perform quickly and efficiently to meet the user's needs.

2. Availability: The system should be available 24/7 with minimal downtime.

3. Scalability: The system should be able to handle an increasing number of customers without compromising performance.

4. Security: The system should be protected from unauthorized access and any data breaches.

5. Reliability: The system should be reliable and provide consistent results.List down the quality attributes that describes how well the system should perform.

6. Usability: The system should be easy to use, intuitive and user-friendly.

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7. Maintainability: The system should be designed in such a way that it can be easily modified to meet changing customer needs

5. FEATURES NOT TO BE TESTED

- Track My Order
- Daraz Affiliate Program
- Daraz Cares
- Sell On Daraz
- Daraz Donates
- Digital Payments

6. TESTING APPROACH

6.1 Testing Levels

- **Unit Testing:** It is done by the developer and approved by the development team leader. Individual components or units of the software with specific inputs are tested

- **System Testing:** It is performed by the test manager and development team leader with assistance from the individual developers as required. Tested the whole system to ensure it meets the design specifications. Programs will enter into System/Integration test after all critical defects have been corrected.

- **User Acceptance Testing (UAT):** It is performed by the real end users with the assistance of the test manager. After the System/Integration test is completed, the acceptance test will run in parallel with the prevailing manual process

6.2 Test Tools

- Selenium: Selenium is a powerful open-source tool for automating web browsers. It is used to test the functionality of web applications on different browsers.

- Manual Testing: Manual Testing is a type of software testing in which test cases are executed manually by a tester without using any automated tools. The purpose of Manual Testing is to identify the bugs, issues, and defects in the software application. Manual software testing is the most primitive technique of all testing types and it helps to find critical bugs in the software application.

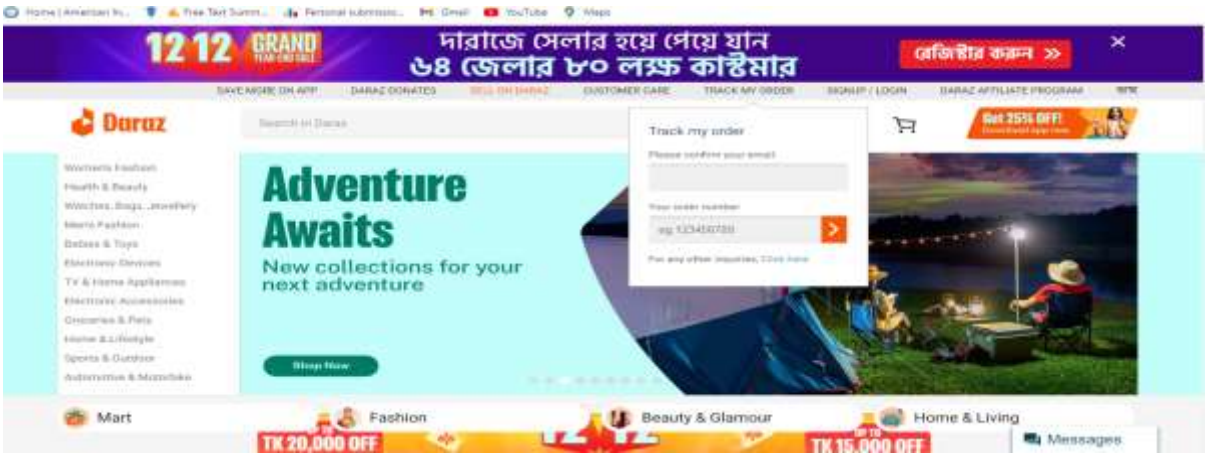
6.3 Meetings

It took two weeks since the first draft and our team held meeting twice a week, every Monday and Wednesday.

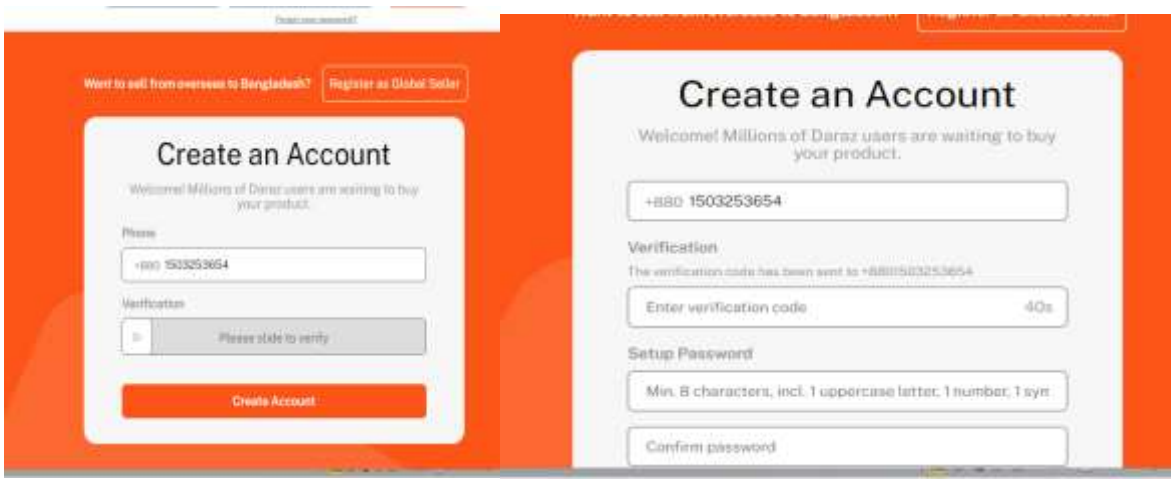
Meeting Date	Meeting Criteria	Objective
12/12/22	Analysis	○ Functions analysis ○ Work process analysis
14/12/22	Progress Evaluation	○ How far the project is prepared ○ Progress evaluation
19/12/22	Error Trends	○ Checking the error trends and bugs
21/12/22	Revise The system	○ Check the whole system ○ Run the system ○ Revise all

7. Test Cases/Test Items:

Project Name: daraz.com.bd			Test Designed by: MD. Rakib Hasan	
Test Case ID: TC_1			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): Medium			Test Executed by: MD. Rakib Hasan	
Module Name: Home page all link validation Session			Test Execution date: 25/12/22	
Test Title: check all link on Home Page				
Description: Click on link and go in other page				
Precondition (If any):				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Click links		The page will change for that link that is clicked	As expected,	Pass
Post Condition: If you need to log in to access a link, you must log in first				

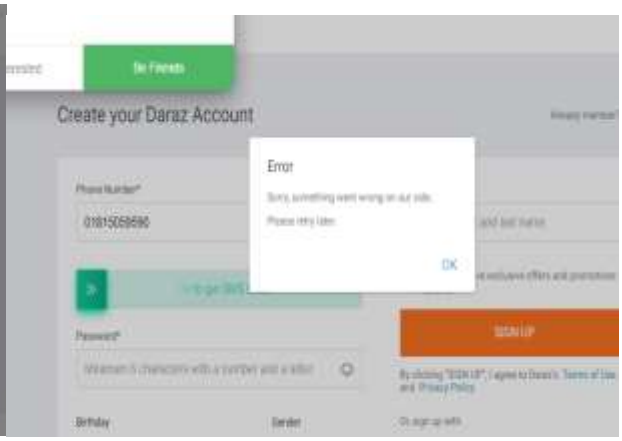


Project Name: daraz.com.bd			Test Designed by: MD. Rakib Hasan	
Test Case ID: TC_2			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): High			Test Executed by: MD. Rakib Hasan	
Module Name: OTP Check in Seller registration Session			Test Execution date: 25/12/22	
Test Title: Check the verification code send or not				
Description: Testing the verification code send or not				
Precondition (If any): The mobile number must be correct and click on the submit button				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Seller registration 3. Enter Mobile number 4. Click on Create account	Mobile Number:0181505950	A verification code must go to the given mobile number	As expected,	Pass
Post Condition: The mobile number will not be saved in the database until the total registration is complete				

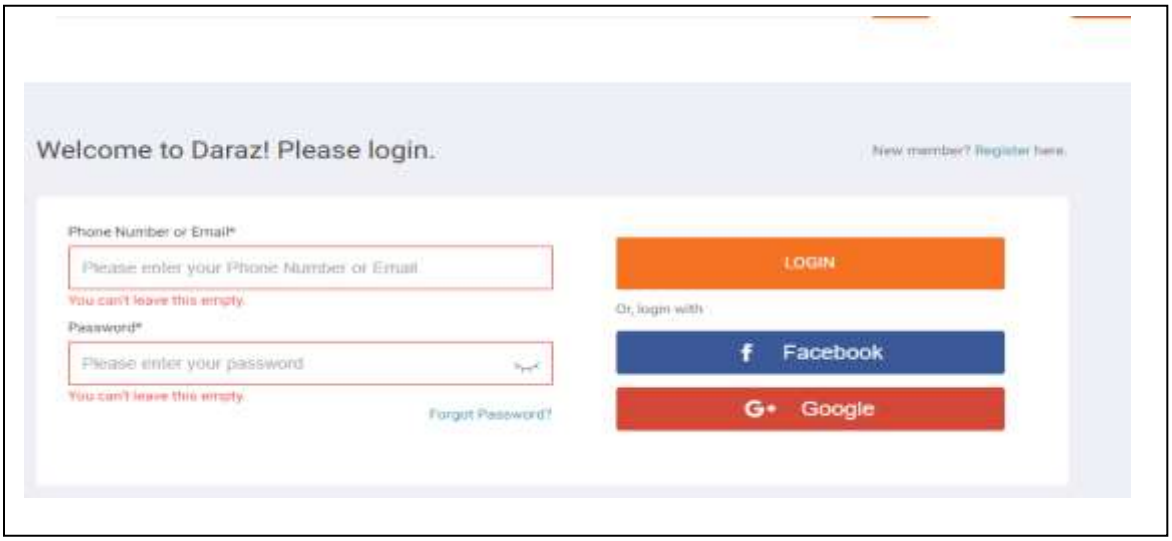


Project Name: daraz.com.bd			Test Designed by: MD. Irfanur Haque Ifad	
Test Case ID: TC_3			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): High			Test Executed by: MD. Irfanur Haque Ifad	
Module Name: Seller registration Session			Test Execution date: 25/12/22	
Test Title: Register as Seller				
Description: Seller registration with given all information.				
Precondition (If any): The mobile number and OTP must be correct				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Seller registration 3. Enter Mobile number 4. Click on Create account	Mobile Number:0181505950	After Submit all data show massage Registration successful	As expected,	Pass
Post Condition: All information must be store in data base				

Project Name: daraz.com.bd			Test Designed by: MD. Irfanur Haque Ifad	
Test Case ID: TC_4			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): High			Test Executed by: MD. Irfanur Haque Ifad	
Module Name: user registration Session			Test Execution date: 25/12/22	
Test Title: Registration as a User				
Description: Testing website user registration.				
Precondition (If any): User must have valid phone number.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login/Signup 3. Register 4. Enter Mobile number 5. Click Submit	Mobile Number:0181505950	After clicking the submit button show massage registration successful	Server error,	Fail
Post Condition: no login session will create.				



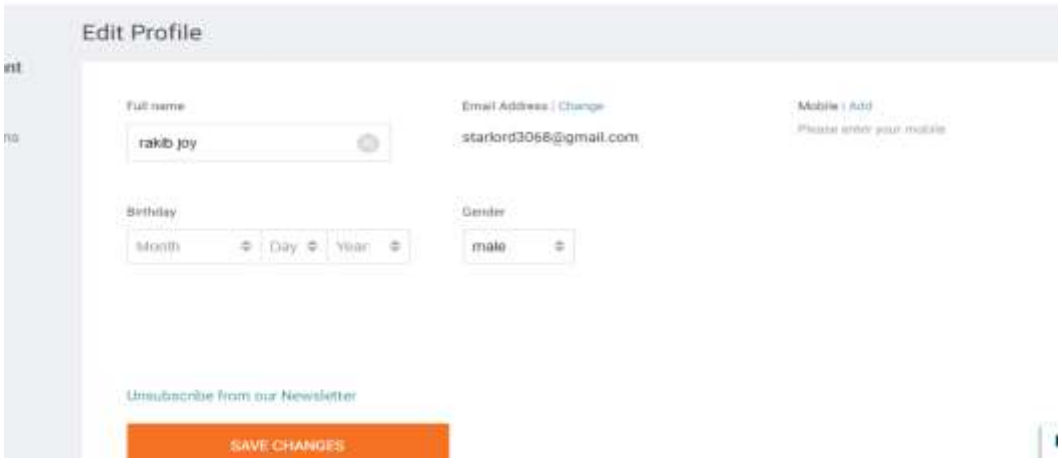
Project Name: daraz.com.bd			Test Designed by: Partha Roy	
Test Case ID: TC_5			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): Low			Test Executed by: Partha Roy	
Module Name: User login Validation Session			Test Execution date: 25/12/22	
Test Title: Verification of input data in the login page				
Description: Testing website user login page.				
Precondition (If any): User must have valid phone number and password.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login/Signup 3. Click Login	Mobile Number:0181505950	After clicking the submit button error massage will be shown for all field that it needs values..	As expected,	Pass
Post Condition: no login session will create.				



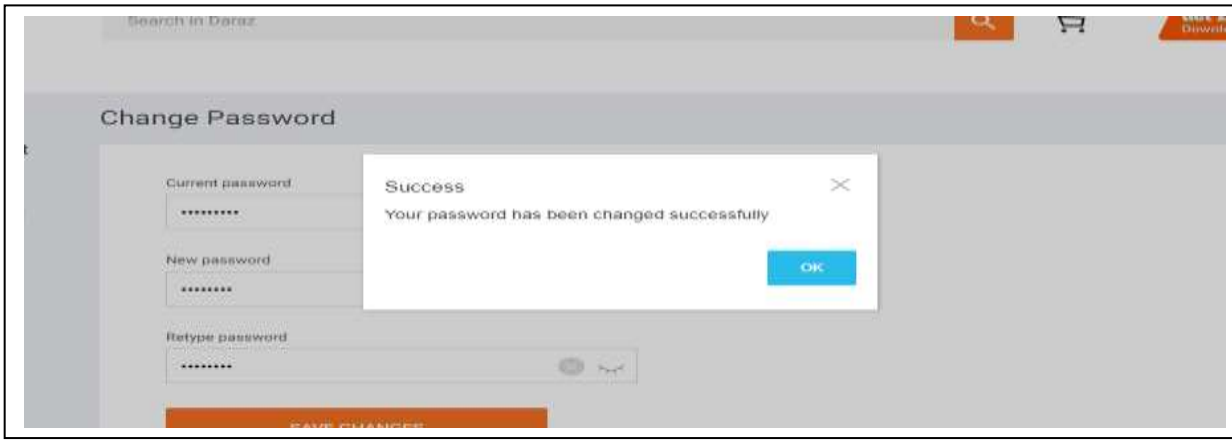
Project Name: daraz.com.bd			Test Designed by: Partha Roy	
Test Case ID: TC_6			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): Medium			Test Executed by: Partha Roy	
Module Name: User login Session			Test Execution date: 25/12/22	
Test Title: User login				
Description: Testing website user login page.				
Precondition (If any): User must have valid phone number and password.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Seller registration 3. Enter Email and password 4. Click on Login	Mobile Email:starlord3068@gmail.com Pass: rakib007	After clicking the Login button user login successfully	As expected,	Pass
Post Condition: All information must be store in data base				

Project Name: daraz.com.bd			Test Designed by: Mahmud Iftekhar Asef	
Test Case ID: TC_7			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): High			Test Executed by: Mahmud Iftekhar Asef	
Module Name: Forgot password session			Test Execution date: 25/12/22	
Test Title: Reset the password				
Description: Testing website Forgot password.				
Precondition (If any): User must provide valid phone number or email.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login/Signup 3. Go Forgot Password	Email Number: starlord3068@gmail.com	Reset the password	Server error,	Fail
Post Condition: No Data change in Data Base				

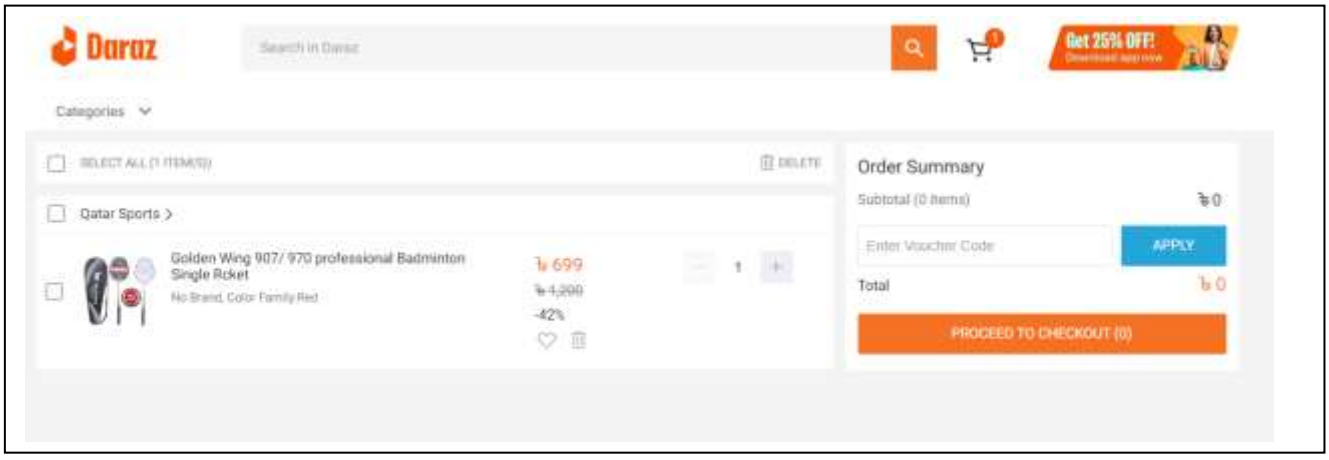
Project Name: daraz.com.bd			Test Designed by: Partha Roy	
Test Case ID: TC_8			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): Low			Test Executed by: Partha Roy	
Module Name: Edit profile session			Test Execution date: 25/12/22	
Test Title: Edit user Personal profile				
Description: Testing Edit user Personal profile.				
Precondition (If any): User must Login.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login/Signup 3. Login 4. Account 5. Manage My Account 6. Edit Personal Account	Name :Rakib Joy	Edit data Change Successfully	As Expected,	Pass
Post Condition: Edit Data will change in Data base				



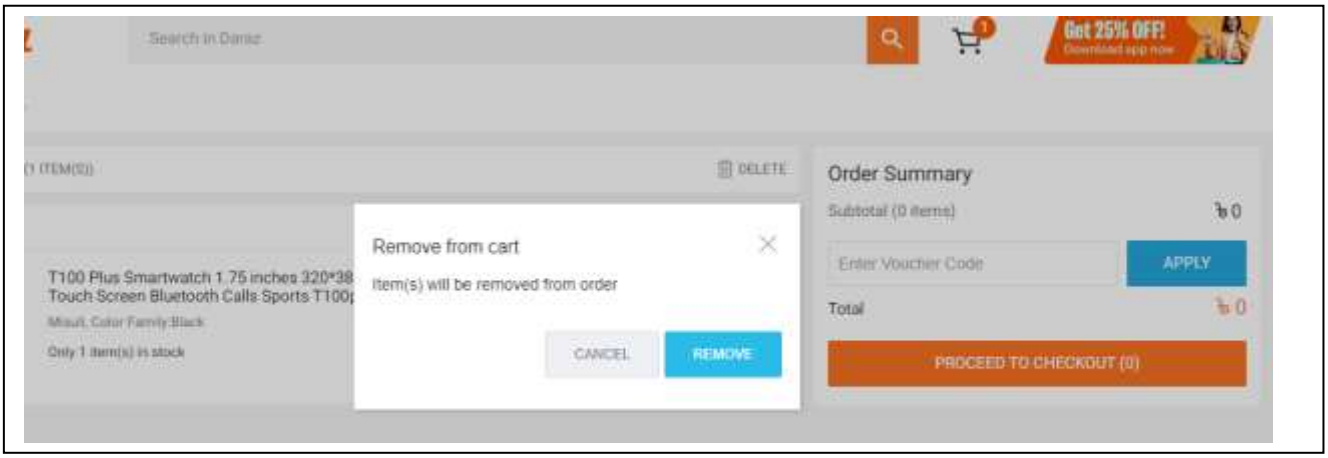
Project Name: daraz.com.bd			Test Designed by: Mahmud Iftekhar Asef	
Test Case ID: TC_9			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): Low			Test Executed by: Mahmud Iftekhar Asef	
Module Name: Change Password session			Test Execution date: 25/12/22	
Test Title: User Password Change				
Description: Testing User Password Change.				
Precondition (If any): User must Login.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
7. Go to the website 8. Login/Signup 9. Login 10. Account 11. Manage My Account 12. Edit Account 13. Change password	Name :Rakib Joy	Change password Successfully	As Expected,	Pass
Post Condition: Edit Data will change in Data base				



Project Name: daraz.com.bd			Test Designed by: Partha Roy	
Test Case ID: TC_10			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): High			Test Executed by: Partha Roy	
Module Name: Add cart session			Test Execution date: 25/12/22	
Test Title: Add cart product for buy				
Description: Testing cart product.				
Precondition (If any): User must Login.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login 3. Product list 4. Add Cart	No Input	Cart Successfully	As Expected,	Pass
Post Condition: Update all database for the cart product				



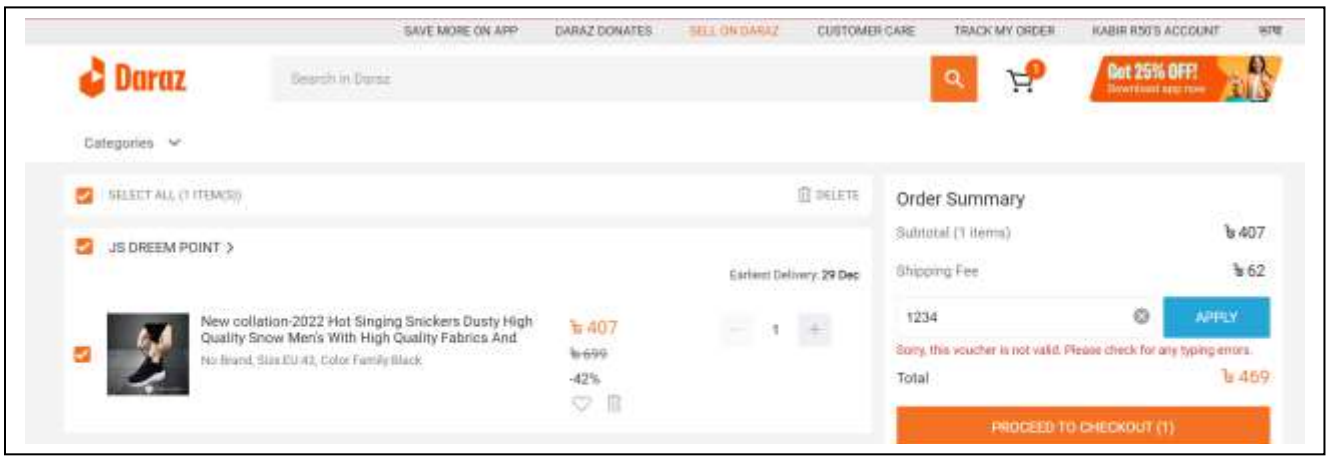
Project Name: daraz.com.bd			Test Designed by: Partha Roy	
Test Case ID: TC_11			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): Medium			Test Executed by: Partha Roy	
Module Name: Remove cart session			Test Execution date: 25/12/22	
Test Title: Remove cart product for buy				
Description: Testing Remove cart product.				
Precondition (If any): User must be Login.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
5. Go to the website 6. Login 7. Product list 8. Add Cart	No Input	Remove Cart Successfully	As Expected,	Pass
Post Condition: Update all database for the Remove cart product				



Project Name: daraz.com.bd	Test Designed by: Mahmud Iftekhar Asef
Test Case ID: TC_12	Test Designed date: 24/12/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Mahmud Iftekhar Asef
Module Name: Abuse session	Test Execution date: 25/12/22
Test Title: Check abuse report submission	
Description: Testing abuse report submission.	
Precondition (If any): User must be Login.	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login 3. Product list 4. Comment Section 5. Report	comments	Report submission complete.	As Expected,	Pass
Post Condition: No duplicate report submission for same product.				

Project Name: daraz.com.bd			Test Designed by: Mahmud Iftekhar Asef	
Test Case ID: TC_13			Test Designed date: 24/12/22	
Test Priority (Low, Medium, High): High			Test Executed by: Mahmud Iftekhar Asef	
Module Name: Coupon verification session			Test Execution date: 25/12/22	
Test Title: Check Coupon verification				
Description: Testing if the Coupon is validate before ordering.				
Precondition (If any): User must be Login.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Login 3. View cart 4. Apply Wrong Coupon	No Input	Add coupon voucher is not validate	As Expected,	Pass
Post Condition: No data update in database				



8. ITEM PASS/FAIL CRITERIA

- Tests must be completed within a certain amount of time.
- Tests must have a certain percentage of success rate.
- Tests must have a certain number of passes and fails.
- Mobile number might be valid
- Any bugs found during the test must be documented and addressed.
- Test must not cause any system crashes or data loss.
- The user should be online.
- All the buttons should work accordingly.

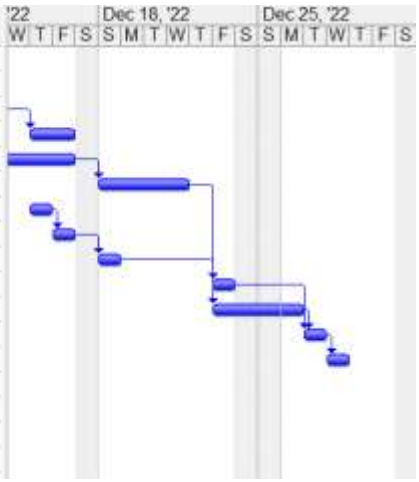
9. TEST DELIVERABLES

- Test Plan
- Test Cases
- Test Data
- Test Logs
- Test Reports
- Acceptance Test Report
- Test execution report
- Test summary report

10. TESTING SCHEDULE

The testing tasks described below are part of the project plan. The project plan timetable specifies the precise dates and lengths of each task. The project schedule and plan to be examined include list the person needed for each procedure.

	Task Name	Duration	Start	Finish	Predecessors
1	Test Plan	2 days	Sat 12/10/22	Sun 12/11/22	
2	Design	3 days	Sat 12/10/22	Mon 12/12/22	
3	First Draft	1 day	Mon 12/12/22	Mon 12/12/22	1
4	Second Draft	2 days	Thu 12/15/22	Fri 12/16/22	3
5	Unit Testing	4 days	Tue 12/13/22	Fri 12/16/22	
6	System testing	4 days	Sun 12/18/22	Wed 12/21/22	5
7	Third Draft	1 day	Thu 12/15/22	Thu 12/15/22	
8	Fourth Draft	1 day	Fri 12/16/22	Fri 12/16/22	7
9	Fifth Draft	1 day	Sun 12/18/22	Sun 12/18/22	8
10	Sixth Draft	1 day	Fri 12/23/22	Fri 12/23/22	9
11	Acceptance Testing	2 days	Fri 12/23/22	Mon 12/26/22	6
12	Final Draft	1 day	Tue 12/27/22	Tue 12/27/22	10,11
13	Documentation	1 day	Wed 12/28/22	Wed 12/28/22	12



11. PLANNING RISKS AND CONTINGENCIES

- Not meeting deadlines due to delays in finding and fixing defects.
- Cost overruns due to additional resources needed to complete the project.
- Poor quality results due to inadequate testing.
- Not meeting customer expectations due to lack of understanding of the customer's needs.
- Security risks due to inadequate security testing.
- For the project to be risk-managed, a quality assurance plan must be established for software quality testing. For the purpose of discovering, evaluating, and reducing risks during software quality testing, a risk management strategy must be used. Consistent code reviews can aid in spotting potential issues.