Test Case Template and Final Contribution Statement (CS360)

StoreX



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Mati ur Rehman Muhammad Hamza Sajjad Muhammad Hamza Shahzad Muhammad Haris Muhammad Raahem Asghar

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Instructor: Suleman Shahid

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Work Division plan

Please share the work plan for each member.

| Member name | Work done (**Clearly** write the name of sections, test case numbers, and the other ways you contributed) | Approximate Equal contribution to the group work (Yes/No) + Remarks if any |
|------------------------|--|--|
| Mati ur Rehman | Lead Developer for the user side of StoreX. Helped in Acceptance Testing, fixes of bugs and other minor issue during development for the user side. | Yes, happy with the work division |
| Muhammad Hamza Sajjad | Test cases T09-T17, T35-T39, Section 2.3, 3.1, 4, 4.3, formatting and organizing the testing document, recording the video demo showing functionalities of both user and admin side of StoreX, communicating with development team to ensure typos, minor bugs etc are fixed | Yes, happy with the work division |
| Muhammad Hamza Shahzad | Lead Developer for the admin side of StoreX. Helped in Acceptance Testing, fixes of bugs and other minor issue during development for the admin side. | Yes, happy with the work division |
| Muhammad Haris | Ran the test cases T18-T31, T48 and reported the findings. Notified the development team of bugs present, which were then patched. Helped with acceptance testing. | Yes, happy with the work division |
| Muhammad Raahem Asghar | Section 1, Test cases T01-T08, T32-T34, T40-T47, T49-T50, helped in Acceptance Testing. Was in communication with the development team and helped in development. | Yes, happy with the work division |

Test Cases

1. Introduction - Muhammad Raahem Asghar

1.1 Document Purpose

The purpose of this document is to enlighten its reader with the working and methodology behind the various types of testing that have been done on our web application – StoreX. This is done in order to ensure that the end product is well up to standards and has no major or minor issues. This document also helps the reader to understand the behavior of our web application against various different valid or invalid inputs.

The reader begins this document by going through the introduction section and the necessary pre-requisites required, followed by the numerous manual test cases used for testing, then a summary of the manual testing with the outputs, statistics of the test cases and finally, a section on acceptance testing in which an end user performs various test cases. Test data is used alongside test cases and the reader can also see the results of the test cases in order to observe the overall behavior of the system.

1.2 Document Scope

The scope of this document is to describe the testing done on StoreX. Functional and non-functional testing has been done on the web app. Validation and defect testing has been done for most of the test cases by providing valid and invalid inputs to the test cases. Most of the test cases have been done through grey box testing as the members writing this document know some of the implementation behind the different features. Testing has been done in order to ensure that the flow of the application is smooth, and the web app functions without any problems. Manual testing has been carried out with the test cases.

Since the UI is the primary interaction between the web app and the admin and user, testing has mostly be done on the UI. Other than that tests have been carried out in order to ensure that the backend is working properly and the database is being updated accordingly upon the execution of a test case. Another major aspect was the combined testing of the front end and backend to ensure that everything is going smoothly, is integrated properly and the results match the expected output.

1.3 Definitions, Acronyms, Abbreviations

| Term | Definition | | | | |
|-------------|---|--|--|--|--|
| Admin | The person who has all the control of web application, who is in charge of adding items and controlling their prices. | | | | |
| Credentials | Credentials authenticate a user when logging into an online account over the Internet | | | | |
| End User | The person for whom the application was developed for | | | | |
| SDS | Software Design Specifications | | | | |
| SRS | Software Requirements Specifications | | | | |
| UI | User Interface | | | | |
| User | A person who visits the web application. | | | | |
| Web App | Web Application | | | | |

1.4 References

StoreX User Side:

https://storex-users.web.app

• StoreX Admin Side:

https://storex-admin.web.app

StoreX SDS:

https://pern-

my.sharepoint.com/:b:/g/personal/22100027_lums_edu_pk/EWHMQoku1a5KIOH4QdSS4W4BbN qYBp3Wqi9qdHjMKZX0sA?e=zIJCrc

StoreX SRS:

https://pern-

my.sharepoint.com/:b:/g/personal/22100027_lums_edu_pk/EUVaVv2fSAFKvRgQ5QCWHsQBC4 XRkQQ70nWMwhz_aQ597w?e=vsDbn4

https://developers.google.com/speed/pagespeed/insights/

1.5 Overview of Use Cases used

The use cases used in this document are those written in the SRS document which are based on the functional and non-functional requirements of the system. The use cases were selected in order to test their functionality. Some of the use cases used are:

- Login User
- Signup User
- Login Admin
- Shopping Cart User
- User Account Details User
- Homepage User
- Search User
- Ordering and Checkout User and Admin
- Add Products Admin
- Update Products Admin
- Delete Product Admin
- View Inventory Admin
- Sales Analytics Admin

More detail regarding the above use cases can be found in our SRS document (can be accessed from the references section).

1.6 Prerequisites to Execute Test Cases

There are some main prerequisites required in order to execute test i.e. a stable internet connection via WiFi, Ethernet etc and the latest web browser (Chrome, Edge, Firefox) on a computer system. Other than that, the tester should have access to the web application. These prerequisites will be used for each and every test case in manual testing.

Other than the main prerequisites, there are other prerequisites that depend upon the type of test case, for example, in order to test the login functionality, the web app, StoreX should be opened on the web browser. Another example would be to test whether user is able to log out or not. In this case, the user should be logged in the web app. All in all, other than the main prerequisites mentioned above, other prerequisites are also required for different test cases. The reader can consult the SRS document if he/she wishes to get more information regarding the use cases or he/she can consult the SDS document if he/she wishes to understand the information architecture of the web app.

2. Testing Environments

2.1 Environment used by member 1 Muhammad Raahem Asghar

| Machine Name | HP Laptop 15- BS178TX | DB Directory | https://console.firebase.google.com/u/0/project/software-engineering-123/database/software-engineering-123-default-rtdb/data | | | | |
|---------------|--|--------------|--|--|----------------------------|---|--|
| Machine Specs | Intel® Core TM i7- 8550U CPU @ 1.80GHz 2.00 GHz, 8GB RAM, 1TB HDD | DB | Firebase | | Client Server /Back-End | https://console.firebase.google.com/u/ 0/project/software-engineering- 123/overview | |
| Device name | HP Laptop 15-BS1 | 78TX | Device specs | e specs Intel® Core™ i7-8550U CPU @ 1.80GHz 2.00 GHz, 8GB RAM, 1TB HDD | | | |
| Tester Name | Muhammad Raahe | m Asghar | Test Date | 24 th April, 2021 | | | |

2.2 Environment used by member 2 Muhammad Haris

| Machine Name | HP ProBook 455 G7 | DB Directory | https://console.firebase.google.com/u/0/project/software-engineering-123/database/software-engineering-123-default-rtdb/data | | | |
|---------------|---|----------------|--|--|--|--|
| Machine Specs | Processor AMD Ryzen 7 4700U, 16GB RAM, 1TB HDD | DB | 6 6 | | | |
| Device name | HP ProBook 455 C | 3 7 | Device specs Processor AMD Ryzen 7 4700U, 16GB RAM, 1TB HDD | | | |
| Tester Name | Muhammad Haris | | Test Date 24 th April, 2021 | | | |

2.3 Environment used by member 3 Muhammad Hamza Sajjad

| Machine Name | Lenovo V330- | DB Directory | https://console.firebase.google.com/u/0/project/software-engineering-123/database/software- |
|--------------|--------------|--------------|---|
| | 15IKB | | engineering-123-default-rtdb/data |

| Machine Specs | Intel® Core TM i5- | DB | Firebase | | Client Server | https://console.firebase.google.com/u/ | |
|---------------|-------------------------------|----------|--------------|--|---------------|--|--|
| | 8250U, 8GB | | | | /Back-End | 0/project/software-engineering- | |
| | RAM, 1TB | | | | | 123/overview | |
| | HDD, Windows | | | | | | |
| | 10 Pro, 2GB | | | | | | |
| | Radeon TM 530 | | | | | | |
| Device name | Lenovo V330-15Ik | KB | Device specs | Intel® Core™ i5-8250U, 8GB RAM, 1TB HDD, Windows 10 Pro, 2GB | | | |
| | | | | Radeon™ 530 | | | |
| Tester Name | Muhammad Hamz | a Sajjad | Test Date | 25 th April, 2021 | | | |

2.4 Environment used by member 4 Muhammad Hamza Shahzad

| Machine Name | Dell Latitude 5480 | DB Directory | https://console.firebase.google.com/u/0/project/software-engineering-123/database/software-engineering-123-default-rtdb/data | | | | |
|---------------|---|--------------|---|--|--|--|--|
| Machine Specs | Intel® Core™ i7- 6600U, 2.6GHz, 2.8GHz, 16GB Ram | DB | Firebase Client Server /Back-End Client Server /Back-End Client Server /Back-End D/project/software-engineering- 123/overview | | | | |
| Device name | Dell Latitude 5480 | | Device specs | Intel® Core TM i7-6600U, 2.6GHz, 2.8GHz, 16GB Ram | | | |
| Tester Name | Muhammad Hamz | a Shahzad | Test Date | 25 th April, 2021 | | | |

2.5 Environment used by member 5 Mati ur Rehman

| Machine Name | Dell Latitude | DB Directory | https://console.firebase.google.com/u/0/project/software-engineering-123/database/software- | | | |
|---------------|---|--------------|---|--|----------------------------|---|
| | 3480 | | engineering-123-de | efault-rtdb/data | | |
| Machine Specs | Intel® Core TM i3- 7100U, 2.4GHz, 2.4GHz, 8GB Ram | DB | Firebase | | Client Server /Back-End | https://console.firebase.google.com/u/ 0/project/software-engineering- 123/overview |
| Device name | Dell Latitude 3480 | | Device specs | Intel® Core™ i3-7100U, 2.4GHz, 2.4GHz, 8GB Ram | | |
| Tester Name | Mati Ur Rehman | | Test Date | 25th April, 2021 | | |

3. Test Cases

3.1 List of test cases

| Testcase ID | Testcase name | Performed by | Successful/Failed |
|----------------------|---|------------------------|-------------------|
| Module: Login a | and Signup | | · |
| T01 | Login Credentials – User | Muhammad Raahem Asghar | Successful |
| T02 | Login Credentials – Admin | Muhammad Raahem Asghar | Successful |
| T03 | Signup for New User | Muhammad Raahem Asghar | Successful |
| T04 | User still logged in after refreshing page | Muhammad Raahem Asghar | Successful |
| T05 | Admin still logged in after refreshing page | Muhammad Raahem Asghar | Successful |
| T06 | Checking whether account created or not | Muhammad Raahem Asghar | Successful |
| Module: User A | ccount | | |
| T07 | Update User Details | Muhammad Raahem Asghar | Successful |
| T08 | Delete Account | Muhammad Raahem Asghar | Successful |
| Module: Shopping | ng Cart | | |
| T09 | Add product(s) to cart and check if quantity | Muhammad Hamza Sajjad | Successful |
| | counter on cart icon increments or not | | |
| T10 | View cart by clicking on icon | Muhammad Hamza Sajjad | Successful |
| T11 | Check whether desired product is added or not | Muhammad Hamza Sajjad | Successful |
| | by opening cart | | |
| T12 | Remove product from cart | Muhammad Hamza Sajjad | Successful |
| T13 | Price and Quantity Update upon modifying | Muhammad Hamza Sajjad | Successful |
| | quantity of added product in cart | | |
| T14 | Increment quantity of added product in cart | Muhammad Hamza Sajjad | Successful |
| | max up till its available stock | | |
| T15 | Input Validation in Shipping Information | Muhammad Hamza Sajjad | Successful |
| T16 | Message displayed on placing order | Muhammad Hamza Sajjad | Successful |
| T17 | Navigation from cart to homepage | Muhammad Hamza Sajjad | Successful |
| Module: Homep | age | | |
| T18 | Search Product | Muhammad Haris | Successful |
| T19 | Category Check | Muhammad Haris | Successful |
| T20 | Navigation to Product Page | Muhammad Haris | Successful |
| T21 | Out of Stock Check | Muhammad Haris | Successful |
| T22 | Navigating from product page to homepage | Muhammad Haris | Successful |
| T23 | Checking whether scrolling arrows working correctly | Muhammad Haris | Successful |

| T24 | Sale products being displayed properly | Muhammad Haris | Successful |
|--------------|---|------------------------|------------|
| Module: Ord | ering and Checkout | | |
| T25 | Check whether order has been placed or not upon checkout – User | Muhammad Haris | Successful |
| T26 | Check whether order has been received by Admin | Muhammad Haris | Successful |
| T27 | Check whether Admin is able to mark as delivered | Muhammad Haris | Successful |
| T28 | Check whether orders removed from pending when dispatched - Admin | Muhammad Haris | Successful |
| T29 | Check whether order has been delivered – User | Muhammad Haris | Successful |
| T30 | Check whether number of stock of said product decreases upon checkout | Muhammad Haris | Successful |
| T31 | User is not able to checkout without logging in | Muhammad Haris | Successful |
| Module: Rati | ng | | |
| T32 | Check whether the user is able to rate a product | Muhammad Raahem Asghar | Successful |
| Module: Add | Products | | |
| T33 | Form Submission | Muhammad Raahem Asghar | Successful |
| T34 | Check whether new product available on homepage | Muhammad Raahem Asghar | Successful |
| Module: Inve | | <u> </u> | , |
| T35 | Inventory being displayed correctly | Muhammad Hamza Sajjad | Successful |
| Module: Upd | | . dd | · |
| T36 | Accurate Searching in Update Products | Muhammad Hamza Sajjad | Successful |
| T37 | Make Sure Form Input is Correct in Update Products | Muhammad Hamza Sajjad | Successful |
| T38 | Dialog box displayed or not upon clicking Update Product | Muhammad Hamza Sajjad | Successful |
| T39 | Checking whether product details are updated or not | Muhammad Hamza Sajjad | Successful |
| Module: Dele | | | , |
| T40 | Accurate Searching | Muhammad Raahem Asghar | Successful |
| T41 | Checking whether form submitted or not | Muhammad Raahem Asghar | Successful |
| T42 | Checking whether product has been removed from the store or not | Muhammad Raahem Asghar | Successful |
| Module: Add | | | · |
| T43 | Form submission | Muhammad Raahem Asghar | Successful |

| T44 | Checking whether the category has been added or not | Muhammad Raahem Asghar | Successful |
|---------------|---|------------------------|------------|
| Module: Sales | Analytics | | |
| T45 | Table being displayed or not for a particular date | Muhammad Raahem Asghar | Successful |
| Module: Logo | ut | • | |
| T46 | User is able to logout | Muhammad Raahem Asghar | Successful |
| T47 | Admin is able to logout | Muhammad Raahem Asghar | Successful |
| Module: Avail | lability | | |
| T48 | Checking whether web app is available at any time | Muhammad Haris | Successful |
| Module: Perfo | ormance | | <u> </u> |
| T49 | Checking whether the web app loads within 5 seconds | Muhammad Raahem Asghar | Successful |
| Module: Porta | ability | | |
| T50 | Checking whether web app opens properly on mobile | Muhammad Raahem Asghar | Failed |

3.2 Test Case T01: Login Credentials - User - Muhammad Raahem Asghar

3.2.1 Description

On the StoreX login page, the user is asked to enter their login credentials to allow them more functionality on the webapp. The entered credentials must match with the credentials stored in the database to proceed forward.

3.2.2 Pre-conditions for this test case

The user should have an active WiFi connection and the StoreX homepage is opened

3.2.3 Scenario 1

| | Test Case | | | | | | | | |
|------------|---|-------------------------------|---|--|-----------------------|---------------------------|--|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | | |
| 1 | Click on Login in the navbar | | Login screen/sign up screen opened | | Successful | | | | |
| 2 | Enter known email ID and password (login side) and press login button | hamza1@gmail.co m hello | The user redirected to Homepage of StoreX, "Signed in" written in green in navbar | | Successful | | | | |
| | | | Test Case Status | Successful | | | | | |

3.2.4 Array of values

| Array of values | | | | | | | | |
|--|--|---|--|--------------------------------------|------------|--|--|--|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 | | | |
| Value1 | hamza1gmail.com | hamza1@gmail.com | | hamza1@gmail.com | | | | |
| Value2 | hello | | | hell | | | | |
| | | | | | | | | |
| ValueX | | | | | | | | |
| Expected Result | Dialog box telling that '@' is missing in email ID | Dialog box telling that password field is empty | Dialog box telling user to enter credentials in the fields | Message: incorrect email or password | | | | |
| Actual Result (if different from expected) | | | | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | | | | |
| Environment Nbr (if failed) | | | | | | | | |
| Log Number (if failed) | | | | | | | | |

3.3 Test Case T02: Login Credentials - Admin - Muhammad Raahem Asghar

3.3.1 Description

On the admin side login page, the admin is asked to enter their login credentials to allow them admin access on the webapp. The entered credentials must match with the credentials stored in the database to proceed forward.

3.3.2 Pre-conditions for this test case

The user should have an active WiFi connection and web browser is open

3.3.3 Scenario 1

| | Test Case | | | | | | | | |
|------------|--|-------------------------------------|--|--|-----------------------|---------------------------|--|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | | |
| 1 | Open StoreX admin side on the web browser | | Admin Login screen loaded | | Successful | | | | |
| 2 | Enter known email ID and password and press login button | 22100061@lums.ed u.pk hellohi | Admin is redirected to Add Products and admin name is written in the dropdown on the header | | Successful | | | | |
| | | | Test Case Status | Successful | | | | | |

3.3.4 Array of values

| Array of values | | | | | | | | |
|--|--|---|--|--------------------------------------|------------|--|--|--|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 | | | |
| Value1 | 221000611ums.edu.pk | 22100061@lums.edu.pk | | 22100061@lums.edu.pk | | | | |
| Value2 | hellohi | | | hello | | | | |
| ••• | | | | | | | | |
| ValueX | | | | | | | | |
| Expected Result | Dialog box telling that '@' is missing in email ID | Dialog box telling that password field is empty | Dialog box telling user to enter credentials in the fields | Message: incorrect email or password | | | | |
| Actual Result (if different from expected) | | | | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | | | | |

| Environment Nbr (if failed) | | | |
|-----------------------------|--|--|--|
| Log Number (if failed) | | | |

3.4 Test Case T03: Signup - User - Muhammad Raahem Asghar

3.4.1 Description

A new user should have the option of creating an account in order to get access to more features on the webapp. The credentials entered into the fields will be saved to the database and then can be used for authentication while logging in.

3.4.2 Pre-conditions for this test case

The user should have an active WiFi connection and web browser is open.

3.4.3 Scenario 1

| | | | Test Case | | | |
|------------|--|--|-------------------------------------|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Open StoreX on the web browser | | StoreX homepage loaded | | Successful | |
| 2 | Click on Login in the navbar | | Login screen/sign up screen opened | | Successful | |
| 2 | Fill in the required information on the sign up form, then press sign up button. | Raahem Asghar 03034195464 Lahore 49 A3, Gulberg 3 22100061@lums.ed u.pk hellohi1 hellohi1 | Message displayed: Account created! | | Successful | |
| | | | Test Case Status | Successful | | |

3.4.4 Array of values

| | | Array | of values | | |
|--|--|---------------------------------|--|--|---------------------------------|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 |
| Value1 | Raahem Asghar | Raahem Asghar | | Raahem Asghar | Raahem Asghar |
| Value2 | 03034195464 | 03034195464 | | | 03034195464 |
| Value3 | Lahore | Lahore | | Lahore | Lahore |
| Value4 | 49 A3, Gulberg 3 | 49 A3, Gulberg 3 | | 49 A3, Gulberg 3 | 49 A3, Gulberg 3 |
| Value5 | 22100061lums.edu.pk | 221000611ums.edu.pk | | 22100061lums.edu.pk | hamza1@gmail.com |
| Value6 | hellohi1 | hellohi1 | | hellohi1 | hellohi1 |
| Value7 | hellohi1 | hellohi | | hellohi1 | hellohi |
| Expected Result | Dialog box telling that '@' is missing in email ID | Message: Passwords do not match | Dialog box telling user to enter credentials in the fields | Dialog box in the appropriate field where data was not entered | Message: Account already exists |
| Actual Result (if different from expected) | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | Successful |
| Environment Nbr (if failed) | | | | | |
| Log Number (if failed) | | | | | |

3.5 Test Case T04: User is still Logged in after refreshing – Muhammad Raahem Asghar

3.5.1 Description

This test case is to check whether the user remains logged in or not upon clicking refresh or if he/she accidentally clicks the refresh page button on the web browser

3.5.2 Pre-conditions for this test case

The user is logged in and is on any page of StoreX

3.5.3 Scenario 1

| | Test Case | | | | | | | |
|------------|---|---------------------|--|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Press the refresh button in the web browser | | The webapp is reloaded and the user is still logged in i.e. signed in written in green in the navbar | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.6 Test Case T05: Admin is still Logged in after refreshing – Muhammad Raahem Asghar

3.6.1 Description

This test case is to check whether the admin remains logged in or not upon clicking refresh or if he/she accidentally clicks the refresh page button on the web browser

3.6.2 Pre-conditions for this test case

The admin is logged in the admin side of StoreX and is on any page of the webapp.

3.6.3 Scenario 1

| | Test Case | | | | | | | |
|------------|-------------------------------------|---------------------|--------------------------------|--|-----------------------|------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Press the refresh button in the web | | The webapp is reloaded and the | | Successful | | | |

| browser | user is still logged in i.e. signed in written in green in the navbar | | |
|---------|---|------------|--|
| | Test Case Status | Successful | |

3.7 Test Case T06: New Account Created or Not After Signup - User - Muhammad Raahem Asghar

3.7.1 Description

Once the user has created the account, it is important to ensure that the user details have been added to the database so that it can be used later on for authentication while logging in

3.7.2 Pre-conditions for this test case

The user should have an active WiFi connection and user has just created his/her account and is on the login page

3.7.3 Scenario 1

| | Test Case | | | | | | |
|------------|---|-------------------------------|---|--|-----------------------|---------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Enter known email ID and password (login side) and press login button | hamza1@gmail.co m hello | The user redirected to Homepage of StoreX, "Signed in" written in green in navbar | | Successful | | |
| | | | Test Case Status | Successful | | | |

3.8 Test Case T07: Update User Details – Muhammad Raahem Asghar

3.8.1 Description

An existing user should have the option of updating his/her information and this test case ensures that this information has been updated correctly or not.

3.8.2 Pre-conditions for this test case

The user should have an active WiFi connection, the user is logged in StoreX

3.8.3 Scenario 1

| | | | Test Case | | | |
|------------|---|--|--|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Click on settings in navbar | | Account settings page loaded with form showing current details of the user | | Successful | |
| 2 | Fill in the required information on the form, then press update button. | Raahem Asghar 03034195464 137 J, DHA Lahore hellohi123 | Message displayed: changes have been made successfully, the form now shows the updated details of the user | | Successful | |
| | | | Test Case Status | Successful | | |

3.8.4 Array of values

| | Array of values | | | | | | | | |
|--------|--|---------------|--|--|--|--|--|--|--|
| | Scenario 2 Scenario 3 Scenario 4 Scenario 5 Scenario 6 | | | | | | | | |
| Value1 | | Raahem Asghar | | | | | | | |
| Value2 | Value2 03034195464 | | | | | | | | |

| Value3 | | 137 J, DHA | | |
|--|---|---|--|--|
| Value4 | | Lahore | | |
| Value5 | | | | |
| Expected Result | Message: Please fill out all the fields | Message: Please fill out all the fields | | |
| Actual Result (if different from expected) | | | | |
| Successful/Failed | Successful | Successful | | |
| Environment Nbr (if failed) | | | | |
| Log Number (if failed) | | | | |

3.9 Test Case T08: Delete Account - Muhammad Raahem Asghar

3.9.1 Description

On the account settings page, there is an option for deleting the user account if the user wishes to do so. On clicking that button, all information related to the user will be erased from the database

3.9.2 Pre-conditions for this test case

The user should have an active WiFi connection, the user is logged in StoreX

3.9.3 Scenario 1

| | Test Case | | | | | | |
|------------|-----------------------------|---------------------|--|--|-----------------------|------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Click on settings in navbar | | Account settings page loaded with form showing current | | Successful | | |

| | | details of the user | | | |
|---|-------------------------|--------------------------------|------------|------------|--|
| 2 | Press the Delete button | Redirected to the homepage | | Successful | |
| | | and the green signed in option | | | |
| | | isn't visible in the navbar, | | | |
| | | confirming the deletion | | | |
| | | Test Case Status | Successful | | |
| | | | | | |

3.10 Test Case T09: Add product(s) to cart and check if quantity counter on cart icon increments or not - Muhammad Hamza Sajjad

3.10.1 Description

The user can click on the add to cart icon in the box of a displayed product (e.g on homepage, category page, search results etc). When the user clicks on the add to cart icon, the product will be added to the user's shopping cart, and the counter on top of the cart icon will be incremented by one ro indicate that the product has been added.

3.10.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed.

3.10.3 Scenario 1

| | Test Case | | | | | | | |
|------------|--|---------------------|---|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Open homepage of StoreX by visiting the URL of user-side StoreX | | Homepage of StoreX is loaded | | Successful | | | |
| 2 | Click once on add to cart icon in bottom left of a displayed product's box | | The value of the quantity counter on top of the cart icon is incremented by one | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.10.4 Scenario 2

| | | | Test Case | | | |
|------------|--|---------------------|--|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Add 9 different products one time each so quantity counter on cart icon reaches 9 | | Quantity counter value is 9 | | Successful | |
| 2 | Click once on add to cart icon in bottom left of another displayed product's box | | The value of the quantity counter on top of the cart icon is incremented by one and reaches 10 | | Successful | |
| | | | Test Case Status | Successful | | |

3.10.5 Scenario 3

| | Test Case | | | | | | |
|------------|---|---------------------|--|----------------------------------|-----------------------|------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from | Successful/F ailed | Log Number (if failed) | |
| ыср | | n) | | expected) | ancu | (II Taneu) | |
| 1 | Try to add one product multiple times to the cart by clicking on its add to cart icon 3 times | | Quantity counter remains the same (after incrementing once on the first addition of the product to the cart) | | Successful | | |
| | | | Test Case Status | Successful | | | |

3.11 Test Case T10: View cart by clicking on icon – Muhammad Hamza Sajjad

3.11.1 Description

The user can view their shopping cart at any given time by clicking on the cart icon located in the top-right of the screen in the header bar.

3.11.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed. The user must have opened up StoreX in their web browser.

3.11.3 Scenario 1

| | Test Case | | | | | | | | |
|------------|--|---------------------|--|--|-----------------------|---------------------------|--|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | | |
| 1 | Click on the cart icon in the top- right of the screen in the header bar (without any adding any products i.e. quantity counter on top of cart icon is 0). | | The shopping cart of the user is loaded and displays 'No items in cart'. | | Successful | | | | |
| | | | Test Case Status | Successful | | | | | |

3.12 Test Case T11: Check whether desired product is added or not by opening cart - Muhammad Hamza Sajjad

3.12.1 Description

The user, after adding a product to their cart, can go to their cart by clicking on the cart icon to check whether that product has actually been added to the cart or not. If it is, it should be displayed in the cart along with its price and quantity.

3.12.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed.

3.12.3 Scenario 1

| | Test Case | | | | | | | |
|------------|--|---------------------|---|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Add a product to the shopping cart from any page by clicking on its add to cart icon once. | | Quantity counter of cart increments by one. | | Successful | | | |
| 2 | Click on cart icon in top right of screen to open cart. | | The shopping cart should be opened, and the added product | | Successful | | | |

| should be displayed there alor with its image, price and quantity equal to one, along with the shipping information section. | | |
|--|------------|--|
| Test Case Status | Successful | |

3.12.4 Scenario 2

| | | | Test Case | | | |
|------------|---|---------------------|--|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Add 3 different products to the shopping cart from any page by clicking on their add to cart icons. | | Quantity counter of cart increments by three. | | Successful | |
| 2 | Click on cart icon in top right of screen to open cart. | | The shopping cart should be opened, and all 3 added products should be displayed there along with their images, prices and quantities (equal to one each), along with the shipping information section. The products should be scrollable if needed. | | Successful | |
| | | | Test Case Status | Successful | | |

3.13 Test Case T12: Remove product from cart – Muhammad Hamza Sajjad

3.13.1 Description

The user can remove a product added to their shopping cart by decrementing its quantity until it reaches zero.

3.13.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed. The user must have opened up StoreX in their web browser. The user must have added a product to their shopping cart.

3.13.3 Scenario 1

| | Test Case | | | | | | | |
|------------|---|---------------------|--|--|-----------------------|------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Only one product is added in the cart. Click once on the negative/decrement button next to quantity of the added product in the cart (which currently has quantity equal to one). | | The product is removed from the cart and screen now displays 'No items in cart'. | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.13.4 Scenario 2

| | Test Case | | | | | | | |
|------------|---|---------------------|--|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Two products are added in the cart. Click once on the minus/decrement button next to quantity of the first added product in the cart (which currently has quantity equal to one). | | The first product is removed from the cart and the second product moves up to replace the removed first product in its position. | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.14 Test Case T13: Price and Quantity Update upon modifying quantity of added product in cart – Muhammad Hamza Sajjad

3.14.1 Description

The user can modify the quantity of an added product, which will update the quantity and price for ordering that product with the updated quantity, as well as update the total price of the products in the shopping cart.

3.14.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed. The user must have opened up StoreX in their web browser.

3.14.3 Scenario 1

| | Test Case | | | | | | |
|------------|--|---------------------|---|--|-----------------------|---------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Add Study Table product to the cart by clicking on its add to cart icon. | | Study Table product is added to the cart. | | Successful | | |
| 2 | Click once on plus button next to quantity of Study Table. | | The quantity of the product is incremented to two, and the price for the product changes from Rs 25000 to 50000. The total price changes from Rs 25000 to Rs 50000 too. | | Successful | | |
| | | | Test Case Status | Successful | | | |

3.14.4 Scenario 2

| | | | Test Case | | | |
|------------|--|---------------------|---|-------------------------------------|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from | Successful/F ailed | Log Number (if failed) |
| 1 | Add Study Table product to the cart by clicking on its add to cart icon. | | Study Table product is added to the cart. | expected) | Successful | |
| 2 | Click once on the plus button next to quantity of Study Table. | | The quantity of the product is incremented to two, and the price for the product changes from Rs 25000 to Rs 50000. The total price changes from Rs 25000 to Rs 50000. | | Successful | |
| 3 | Click once on the minus button next to quantity of Study Table. | | The quantity of the product is decremented to one, and the | | Successful | |

| | price for the product changes from Rs 50000 to Rs 25000. The total price changes from Rs 50000 to Rs 25000. | | |
|--|--|------------|--|
| | Test Case Status | Successful | |

3.15 Test Case T14: Increment quantity of added product in cart max up till its available stock - Muhammad Hamza Sajjad

3.15.1 Description

This test case ensures that the user can only increase the quantity for a specific product added in their cart up till its available stock.

3.15.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed. The user must have opened up StoreX in their web browser.

3.15.3 Scenario 1

| | | | Test Case | | | |
|------------|---|---------------------|---|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Add a product to the cart by clicking on its add to cart icon. | | The product is added to the cart. | | Successful | |
| 2 | Click on plus button next to quantity of the added product until it reaches the mentioned available stock quantity. | | The quantity of the product is incremented till it reaches the value of its available stock quantity. | | Successful | |
| 3 | Click once more on the plus button next to quantity of the added product. | | The quantity does not increment and remains the same. | | Successful | |
| | | , | Test Case Status | Successful | | • |

3.16 Test Case T15: Input validation in shipping information - Muhammad Hamza Sajjad

3.16.1 Description

This test case ensures that there are no blank fields left before placing the order, and that phone number has only numbers input in it.

3.16.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed. The user must have opened up StoreX in their web browser.

3.16.3 Scenario 1

| | Test Case | | | | | | | |
|------------|---|---------------------|---|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | The user is logged in. The user goes to their shopping cart by clicking on the shopping cart icon. The user has already added at least one product to their cart. The user does not fill any field in the shipping information and clicks the Place Order button. | | A tooltip appears asking the user to fill out the empty field(s). | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.16.4 Scenario 2

| | Test Case | | | | | | |
|------|-----------------------------------|-------------------|---------------------------------|--------------------|--------------|-------------|--|
| UC | Step Description | Data/Value (1 to | Expected Result | Actual Result | Successful/F | Log Number | |
| Step | | n) | | (if different from | ailed | (if failed) | |
| | | | | expected) | | | |
| 1 | The user is logged in. The user | Phone: | The Phone field does not accept | | Successful | | |
| | opens the cart by clicking on the | abcdefghijklmnopq | any alphabets as input. | | | | |
| | cart icon. The user has already | rstuvwxyz | | | | | |

| | added at least one product to their cart. The user fills out the first three fields in shipping information and tries to enter all alphabets one by one in the Phone field. | | | | | |
|---|---|-------------------|---|------------|------------|--|
| 2 | The user now tries to enter numbers in the Phone field. | Phone: 1234567890 | The Phone field accepts numbers as input. | | Successful | |
| | in the Friends | | Test Case Status | Successful | | |

3.17 Test Case T16: Message displayed on placing order - Muhammad Hamza Sajjad

3.17.1 Description

This test case checks if a message is displayed to the user after they place an order from their shopping cart.

3.17.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed. The user must have opened up StoreX in their web browser.

3.17.3 Scenario 1

| Test Case | | | | | | | |
|------------|--|--|--|--|-----------------------|------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | The user is logged in. The user opens the cart by clicking on the cart icon. The user has already added at least one product in their cart. The user adds their full name, shipping address, city, and phone. The user then clicks the Place Order button. | Full Name: Muhammad Hamza Sajjad Shipping Address: 24 Crater Street, Brown Town, Mars City: Martiana Phone:1234567890 | A message is displayed to the user saying 'Your order has been placed successfully!' Then, it vanishes after a few seconds and the cart now says 'No items in cart'. | | Successful | | |
| | | • | Test Case Status | Successful | ! | ! | |

3.18 Test Case T17: Navigation from cart to homepage - Muhammad Hamza Sajjad

3.18.1 Description

This test case checks if the user is able to navigate to the homepage from the shopping cart, and if the added products remain added in the cart.

3.18.2 Pre-conditions for this test case

The user should have an active WiFi connection and should have a web browser installed. The user must have opened up StoreX in their web browser.

3.18.3 Scenario 1

| | | | Test Case | | | |
|------------|--|---------------------|---|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | The user has added at least one product in their cart. The user is present on the shopping cart screen. The user clicks on Home in the header bar. | | The homepage is loaded and displayed. The quantity counter on the cart icon remains the same | | Successful | |
| 2 | The user clicks on the cart icon to go back to the shopping cart. | | The shopping cart is displayed with the shipping information. Previously added products are still there and are displayed along with their images, prices and quantities too. | | Successful | |
| | | | Test Case Status | Successful | | |

3.19 Test Case T18: Search Product - Muhammad Haris

3.19.1 Description

Check if the user is returned expected output when searching for a product. The input is entered into the search bar and then the search button is clicked.

3.19.2 Pre-conditions for this test case

The database has been populated with items.

3.19.3 Scenario 1

| | Test Case | | | | | | |
|------------|--------------------------------------|---------------------|-------------------------------|--|-----------------------|------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Select the search box by clicking it | | Shows text cursor blinking | | Successful | | |
| 2 | Enter product to search | tricycle | The text is entered correctly | | Successful | | |
| 3 | Click the search icon to get result | | Returns the product to select | | Successful | | |
| _ | | | Test Case Status | Successful | | | |

3.19.4 Array of values

| Array of values | | | | | | |
|--|----------------------------------|--------------------------------|-----------------|-----------------|-----------------|--|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 | |
| Value1 | phone | Enter nothing and click search | abcdef | 1234 | / | |
| Expected Result | Returns product related to input | Should not do anything | Returns nothing | Returns nothing | Returns nothing | |
| Actual Result (if different from expected) | | | | | | |

| Successful/Failed | Successful | Successful | Successful | Successful | Successful |
|-----------------------------|------------|------------|------------|------------|------------|
| Environment Nbr (if failed) | | | | | |
| Log Number (if failed) | | | | | |

3.20 Test Case T19: Category Check (click in navbar to check whether page opens) - Muhammad Haris

3.20.1 Description

When the user clicks the categories present on the side navbar they should get all the products in that category.

3.20.2 Pre-conditions for this test case

The database has been populated with items.

3.20.3 Scenario 1

| | Test Case | | | | | | |
|------|------------------------------|------------------|---------------------------|--------------------|--------------|-------------|--|
| UC | Step Description | Data/Value (1 to | Expected Result | Actual Result | Successful/F | Log Number | |
| Step | | n) | | (if different from | ailed | (if failed) | |
| | | | | expected) | | | |
| 1 | Click the Groceries category | | Returns all grocery items | | Successful | | |
| | | | Test Case Status | Successful | | | |
| | | | | | | | |

3.20.4 Array of values

| | Array of values | | | | | |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 | |
| Action performed | Click electronics category | Click sports category | Click toys category | Click furniture category | Click stationary category | |
| Expected Result | Return items in that category | |
| Actual Result (if different from expected) | | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | Successful | |
| Environment Nbr (if failed) | | | | | | |
| Log Number (if failed) | | | | | | |

3.21 Test Case T20: Navigation to Product Page – Muhammad Haris

3.21.1 Description

Clicking the product will take user to the product page.

3.21.2 Pre-conditions for this test case

An item is returned.

3.21.3 Scenario 1

| | Test Case | | | | | | |
|------------|---|---------------------|------------------|--|-----------------------|---------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Click the image of item chosen Open the product page Successful | | | | | | |
| | | | Test Case Status | Successful | | | |

3.22 Test Case T21: Out of Stock Check - Muhammad Haris

3.22.1 Description

If an item the user is ordering is out of stock then they will be notified.

3.22.2 Pre-conditions for this test case

An item in cart is out of stock.

3.22.3 Scenario 1

| | Test Case | | | | | |
|------------|------------------------------|---------------------|---|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Login as user | | Homepage is shown with notification of being logged in. | | Successful | |
| 2 | Search for out-of-stock item | | The item is not shown | | Successful | |
| | | | Test Case Status | Successful | | |

3.22.4 Scenario 2

| | Test Case | | | | | |
|------------|---|---------------------|---|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Login as user | | Homepage is shown with notification of being logged in. | | Successful | |
| 2 | Adding item to cart more than the available stock | | The item should not be added | | Successful | |
| | • | | Test Case Status | Successful | | |

3.23 Test Case T22: Navigating from product page to homepage – Muhammad Haris

3.23.1 Description

The user can return from the product page. User can click the website icon to go to homepage.

3.23.2 Pre-conditions for this test case

The product page is open.

3.23.3 Scenario 1

| | Test Case | | | | | | |
|------|-------------------------|------------------|-----------------------|--------------------|--------------|-------------|--|
| UC | Step Description | Data/Value (1 to | Expected Result | Actual Result | Successful/F | Log Number | |
| Step | | n) | | (if different from | ailed | (if failed) | |
| | | | | expected) | | | |
| 1 | Click the homepage icon | | Homepage will be open | | Succesful | | |
| | | | Test Case Status | Successful | | _ | |
| | | | | | | | |

3.24 Test Case T23: Checking whether scrolling arrows working correctly - Muhammad Haris

3.24.1 Description

When the user clicks the arrow, new products are shown.

3.24.2 Pre-conditions for this test case

List of items are shown.

3.24.3 Scenario 1

| | Test Case | | | | | | |
|------|----------------------------------|------------------|----------------------------|--------------------|--------------|-------------|--|
| UC | Step Description | Data/Value (1 to | Expected Result | Actual Result | Successful/F | Log Number | |
| Step | | n) | | (if different from | ailed | (if failed) | |
| | | | | expected) | | | |
| 1 | Click the arrow for more results | | More products are returned | | Successful | | |
| 2 | Keep clicking until reach out of | | Should loop over the list | | Successful | | |
| | items | | | | | | |

| Test Case Status | Successful |
|------------------|------------|
| | |

3.25 Test Case T24: Sale products being displayed properly – Muhammad Haris

3.25.1 Description

The items are displayed on sale with discounted price.

3.25.2 Pre-conditions for this test case

There are items on sale.

3.25.3 Scenario 1

| | Test Case | | | | | | | |
|------|------------------------------------|------------------|---------------------------|--------------------|--------------|-------------|--|--|
| UC | Step Description | Data/Value (1 to | Expected Result | Actual Result | Successful/F | Log Number | | |
| Step | | n) | | (if different from | ailed | (if failed) | | |
| | | | | expected) | | | | |
| 1 | View the items on sale in homepage | | Products are shown | | Successful | | | |
| 2 | Scroll through them using arrows | | Should loop over the list | | Successful | | | |
| | | | Test Case Status | Successful | | | | |
| | | | | | | | | |

3.26 Test Case T25: Check whether order has been placed or not upon checkout – User (display dialog box) – Muhammad Haris

3.26.1 Description

When the user places an order they are a confirmation.

3.26.2 Pre-conditions for this test case

The items are added to the cart.

3.26.3 Scenario 1

| | Test Case | | | | | | | |
|------------|-------------------------------------|---------------------|--|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | The user is logged in | | Shows the logged in icon | | Successful | | | |
| 2 | Add products to cart | | Displays the items in cart | | Successful | | | |
| 3 | Click checkout after adding details | | Displays your order has been successfully placed | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.27 Test Case T26: Check whether order has been received by Admin - Muhammad Haris

3.27.1 Description

The admin should receive the order that is made in the list of orders tab.

3.27.2 Pre-conditions for this test case

An order is received.

3.27.3 Scenario 1

| | Test Case | | | | | | |
|------------|-----------------------------------|---------------------|--|--|-----------------------|---------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Open the orders tab on admin side | | Gives list of order. Shows the recently added order. | | Successful | | |
| | | | Test Case Status | Successful | | | |

3.28 Test Case T27: Check whether Admin is able to mark as delivered - Muhammad Haris

3.28.1 Description

When the item has been delivered the admin can click the mark as delivered button. This button will show the order has been delivered.

3.28.2 Pre-conditions for this test case

An order was received.

3.28.3 Scenario 1

| | Test Case | | | | | | | |
|------------|------------------------------------|---------------------|----------------------------------|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Open the concerned order | | Show details of the order | | Successful | | | |
| 2 | Click the mark as delivered button | | Takes back to the pending orders | | Successful | | | |
| • | | • | Test Case Status | Successful | | • | | |

3.29 Test Case T28: Check whether orders removed from pending when dispatched – Muhammad Haris

3.29.1 Description

When the order has been marked as delivered

3.29.2 Pre-conditions for this test case

The marked as delivered was clicked for an order.

3.29.3 Scenario 1

| | Test Case | | | | | | | |
|------|-----------------------------------|------------------|----------------------------------|--------------------|--------------|-------------|--|--|
| UC | Step Description | Data/Value (1 to | Expected Result | Actual Result | Successful/F | Log Number | | |
| Step | | n) | | (if different from | ailed | (if failed) | | |
| | | | | expected) | | | | |
| 1 | Marked as delivered was clicked | | Takes back to the list of orders | | Successful | | | |
| 2 | See if the order was removed from | | The number of pending orders | | Successful | | | |
| | the list | | has decreased as the order | | | | | |

| | marked was deleted | | |
|--|-------------------------|------------|--|
| | Test Case Status | Successful | |
| | | | |

3.30 Test Case T29: Check whether order has been delivered - User (notifications or history) - Muhammad Haris

3.30.1 Description

The user is given notification when their order has been marked as delivered.

3.30.2 Pre-conditions for this test case

The admin has marked the user's order as delivered.

3.30.3 Scenario 1

| | Test Case | | | | | | |
|------------|-------------------------|---------------------|---|--|-----------------------|------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Login as user | | Taken to homepage | | Successful | | |
| 2 | Check the order history | | The order was moved from pending to past orders | | Successful | | |
| | | | Test Case Status | Successful | | | |

3.31 Test Case T30: Check if stock decreases- Muhammad Haris

3.31.1 Description

When the user uses the checkout after adding products to his/her cart then the stock of that remaining product should decrease.

3.31.2 Pre-conditions for this test case

An item was ordered by a user.

3.31.3 Scenario 1

| | Test Case | | | | | | | |
|------------|---|---------------------|---|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Login to admin site | | Shows the admin side | | Successful | | | |
| 2 | Open view inventory | | Shows the item in stock and their data | | Successful | | | |
| 3 | See if the stock of tricycle decreases by 2 after buying them | | The Stock remaining value for tricycle decreases by 2 | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.32 Test Case T31: User is not able to checkout without logging in - Muhammad Haris

3.32.1 Description

The user is given a message when they try to checkout without logging in.

3.32.2 Pre-conditions for this test case

User is logged out and has something in cart.

3.32.3 Scenario 1

| | Test Case | | | | | | | | |
|------------|---------------------------|---------------------|---|--|-----------------------|---------------------------|--|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | | |
| 1 | Add items to cart | | Items are displayed in the cart | | Successful | | | | |
| 2 | Click the checkout button | | A message for the user is displayed, asking them to login or signup | | Successful | | | | |
| | | | Test Case Status | Successful | | | | | |

3.33 Test Case T32: Check whether the user is able to rate a product - Muhammad Raahem Asghar

3.33.1 Description

This test case is done to ensure that the user is able to rate the product and his/her rating has been taken into account while calculating the average rating of the product

3.33.2 Pre-conditions for this test case

StoreX is opened and user is logged in.

3.33.3 Scenario 1

| | Test Case | | | | | | | | |
|------------|---|---------------------|--|--|-----------------------|------------------------|--|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | | |
| 1 | Navigate to product page by clicking on a product | | Information about the product is displayed | | Successful | | | | |
| 2 | Click on the number of stars to give as a rating | | The number of stars selected are highlighted and the rating has been stored. | | | | | | |
| | | | Test Case Status | Successful | | | | | |

3.34 Test Case T33: Add Products Form Submission - Admin - Muhammad Raahem Asghar

3.34.1 Description

This test case ensures that the add products form is being displayed and new products that are being added to the database and the appropriate output is being displayed or not

3.34.2 Pre-conditions for this test case

The user should have an active WiFi connection, the admin is logged in StoreX.

3.34.3 Scenario 1

| | | | Test Case | | | |
|------------|--|--|---|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Click on Add Products in the navbar | | Add Product form is loaded | | Successful | |
| 2 | Fill in the required information on the form, then press Add Product button. | OnePlus 5 OnePlus Electronics 58000 25 0 https://th.bing.com/ th/id/Ref776126835 c92fdce7f308baedb cc67?rik=5oRq6RO 5DGJz3A&pid=Im gRaw Very fast Android phone with the latest OS | Add Product page reloaded indicating that the product has been added successfully | | Successful | |
| | | • | Test Case Status | Successful | | • |

3.34.4 Array of values

| | Array of values | | | | | | | | |
|--------|-----------------|-------------|-------------|------------|------------|--|--|--|--|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 | | | | |
| Value1 | | OnePlus 5 | OnePlus 5 | | | | | | |
| Value2 | | OnePlus | OnePlus | | | | | | |
| Value3 | | Electronics | Electronics | | | | | | |
| Value4 | | 58000 | Abcdef | | | | | | |
| Value5 | | 25 | Abcdef | | | | | | |

| Value6 | | 0 | 0 | |
|--|--|---|---|--|
| Value7 | | | https://th.bing.com/th/id /Ref776126835c92fdce7 f308baedbcc67?rik=5oR q6RO5DGJz3A&pid=I mgRaw | |
| Value8 | | Very fast Android phone with the latest OS | Very fast Android phone with the latest OS | |
| Expected Result | Dialog box with the message Please fill out all the fields | Dialog box over the field which is left empty | Does not allow entry of string in fields that require a numeric value | |
| Actual Result (if different from expected) | | | | |
| Successful/Failed | Successful | Successful | | |
| Environment Nbr (if failed) | | | | |
| Log Number (if failed) | | | | |

3.35 Test Case T34: Check whether the product has been added to StoreX - Admin - Muhammad Raahem Asghar

3.35.1 Description

This test case ensures that upon submitting the add product form, the new product has been added to the database and can be seen on the StoreX homepage.

3.35.2 Pre-conditions for this test case

The user should have an active WiFi connection, web browser is open

3.35.3 Scenario 1

| | Test Case | | | | | | | |
|------------|--|---------------------|--|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Admin opens the StoreX webapp by entering the URL | | Homepage is displayed | | Successful | | | |
| 2 | Clicks on the category of the new product added (e.g. Electronics) | | Category page is opened with the new product as the last item being displayed on that page | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.36 Test Case T35: Inventory being displayed correctly - Admin - Muhammad Hamza Sajjad

3.36.1 Description

This test case ensures that on the admin side of StoreX, the inventory of products is being displayed in a correct and organized tabular format.

3.36.2 Pre-conditions for this test case

The user should have an active WiFi connection, the web browser should be open and the admin is logged into StoreX.

3.36.3 Scenario 1

| | Test Case | | | | | | | | |
|------------|---|---------------------|--|--|-----------------------|---------------------------|--|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | | |
| 1 | Click on View Inventory in the side navigation bar. | | The inventory is loaded and displayed to the admin. The table's columns should be Product ID, Product Name, Brand Name, Category, Price, Stock Remaining, Total Sold. Each product should be displayed per each row. | | Successful | | | | |
| | | | displayed per each row. Test Case Status | Successful | | | | | |

3.37 Test Case T36: Accurate Searching in Update Products - Admin - Muhammad Hamza Sajjad

3.37.1 Description

This test case checks if the search functionality in the Update Products in admin side is working accurately and as intended or not.

3.37.2 Pre-conditions for this test case

The user should have an active WiFi connection, the web browser should be open, the admin is logged into StoreX.

3.37.3 Scenario 1

| | | | Test Case | | | |
|------------|--|--|---|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Click on Update Products in the side navigation bar. | | The Update Product page is loaded and displayed. | | Successful | |
| 2 | Enter the following values in Product ID and Product Name (these are valid and matching values as stored in inventory), and then click on Search button. | Product ID: 8 Product Name: Kettle | Product Details of the searched product are loaded. These can be modified and updated as needed. | | Successful | |
| 3 | Change quantity, price and discount to a negative value (e.g1) one by one, and click Update Product button. | Quantity: -1 | A tooltip appears for each of these three fields having a negative value, which tells the user that 'Value must be greater than or equal to 0'. | | Successful | |
| | | | Test Case Status | Successful | | |

3.37.4 Array of values

Array of values

| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 |
|--|--|--|--|---|------------|
| Value1 | 8 | | | 999 | |
| Value2 | | Kettle | | Milo | |
| Expected Result | Dialog box with the message: Please fill the empty field | Dialog box with the message: Please fill the empty field | Dialog box with the message: Please fill the empty field | Dialog box with the message: This product is not present in your inventory | |
| Actual Result (if different from expected) | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | |
| Environment Nbr (if failed) | | | | | |
| Log Number (if failed) | | | | | |

3.38 Test Case T37: Make Sure Form Input is Correct in Update Products - Admin - Muhammad Hamza Sajjad

3.38.1 Description

This test case validates the input in the price, discount and quantity fields for a searched product in Update Products.

3.38.2 Pre-conditions for this test case

The user should have an active WiFi connection, the web browser should be open, the admin is logged into StoreX.

3.38.3 Scenario 1

| | Test Case | | | | | | | |
|------|---------------------------------|------------------|----------------------------|--------------------|--------------|-------------|--|--|
| UC | Step Description | Data/Value (1 to | Expected Result | Actual Result | Successful/F | Log Number | | |
| Step | | n) | | (if different from | ailed | (if failed) | | |
| | | | | expected) | | | | |
| 1 | Click on Update Products in the | | The Update Product page is | | Successful | | | |
| | side navigation bar. | | loaded and displayed. | | | | | |

| 2 | Enter the following values in | Product ID: 8 | Product Details of the searched | | Successful | |
|---|-------------------------------------|---------------|----------------------------------|------------|------------|--|
| | Product ID and Product Name | Product Name: | product are loaded. These can | | | |
| | (these are valid and matching | Kettle | be modified and updated as | | | |
| | values as stored in inventory), and | | needed. | | | |
| | then click on Search button. | | | | | |
| 3 | Change quantity, price and discount | Quantity: -1 | A tooltip appears for each of | | Successful | |
| | to a negative value (e.g1) one by | | these three fields having a | | | |
| | one, and click Update Product | | negative value, which tells the | | | |
| | button. | | user that 'Value must be greater | | | |
| | | | than or equal to 0'. | | | |
| | | | Test Case Status | Successful | | |
| | | | | | | |

3.39 Test Case T38: Dialog box displayed or not upon clicking Update Product - Admin - Muhammad Hamza Sajjad

3.39.1 Description

This test case checks if a dialog box is displayed to the user telling them that the product details have been updated successfully upon clicking Update Product.

3.39.2 Pre-conditions for this test case

The user should have an active WiFi connection, the web browser should be open, the admin is logged into StoreX.

3.39.3 Scenario 1

| | Test Case | | | | | | | | |
|------------|--|--|--|--|-----------------------|---------------------------|--|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | | |
| 1 | Click on Update Products in the side navigation bar. | | The Update Product page is loaded and displayed. | | Successful | | | | |
| 2 | Enter the following values in Product ID and Product Name (these are valid and matching values as stored in inventory), and then click on Search button. | Product ID: 8 Product Name: Kettle | Product Details of the searched product are loaded. These can be modified and updated as needed. | | Successful | | | | |

| 3 | Change quantity to 2, price to 3400, | Quantity: 2 | A dialog box is displayed to the | | Successful | |
|---|--------------------------------------|--------------|----------------------------------|------------|------------|--|
| | discount to 50 and then click | Price: 3400 | user with the message 'This | | | |
| | Update Product button. | Discount: 50 | product has been updated | | | |
| | | | successfully' when the Update | | | |
| | | | Product button is clicked. | | | |
| | | | Test Case Status | Successful | | |
| | | | | | | |

3.40 Test Case T39: Checking whether product details are updated or not- Admin - Muhammad Hamza Sajjad

3.40.1 Description

This test case checks if the product details are successfully updated after updating it through Update Products, by checking its details in the inventory and on the user side of StoreX.

3.40.2 Pre-conditions for this test case

The user should have an active WiFi connection, the web browser should be open, the admin is logged into StoreX.

3.40.3 Scenario 1

| | | | Test Case | | | |
|------------|--|--|--|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Click on Update Products in the side navigation bar. | | The Update Product page is loaded and displayed. | | Successful | |
| 2 | Enter the following values in Product ID and Product Name (these are valid and matching values as stored in inventory), and then click on Search button. | Product ID: 8 Product Name: Kettle | Product Details of the searched product are loaded. These can be modified and updated as needed. | | Successful | |
| 3 | Change quantity to 2, price to 3400, discount to 50 and then click Update Product button. | Quantity: 2 Price: 3400 Discount: 50 | A message is displayed telling the admin 'Product updated successfully'. | | Successful | |
| 4 | Click on View Inventory in the side navigation bar and check if the | | The product with Product ID 8 and Product Name Kettle has | | Successful | |

| | product with product ID 8 has | the updated quantity/stock | | | |
|---|----------------------------------|--------------------------------|------------|------------|--|
| | updated details or not. | remaining equal to 2 and | | | |
| | | updated price equal to 3400. | | | |
| 5 | Open the user side of StoreX by | The search results show the | | Successful | |
| | visiting its URL. Search for the | product Kettle with discounted | | | |
| | product Kettle. | price of Rs 1700 (hence, 50% | | | |
| | | discount). | | | |
| | | Test Case Status | Successful | | |
| | | | - | | |

3.41 Test Case T40: Accurate Searching in Delete Products - Admin - Muhammad Raahem Asghar

3.41.1 Description

This test case ensures that searching of a product to be deleted is being done properly and the correct result is being displayed.

3.41.2 Pre-conditions for this test case

The user should have an active WiFi connection, the admin is logged in StoreX.

3.41.3 Scenario 1

| | Test Case | | | | | | | |
|------------|---|---------------------|--|--|-----------------------|------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Click on Delete Products option in the navbar | | Delete Products page is loaded | | Successful | | | |
| 2 | Fill in the required information on the form, then press Search button. | 1 Tricycle | Information related to the product with product ID 1 and product name Tricycle will be displayed | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.41.4 Array of values

| | | Array | of values | | |
|--|--|--|--|--|------------|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | Scenario 6 |
| Value1 | 1 | | | 1000 | |
| Value2 | | Tricycle | | Naruto | |
| Expected Result | Dialog box with the message: Please fill the empty field | Dialog box with the message: Please fill the empty field | Dialog box with the message: Please fill the empty field | Modal with the message: Product not found in the inventory | |
| Actual Result (if different from expected) | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | |
| Environment Nbr (if failed) | | | | | |
| Log Number (if failed) | | | | | |

3.42 Test Case T41: Checking whether Delete Products form has submitted or not - Admin - Muhammad Raahem Asghar

3.42.1 Description

This test case ensures that the delete product form functions correctly and it is submitted so that the product is deleted from the inventory.

3.42.2 Pre-conditions for this test case

The user should have an active WiFi connection, the admin is logged in StoreX.

3.42.3 Scenario 1

| | | | Test Case | | | |
|------------|---|---------------------|--|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Click on Delete Products option in the navbar | | Delete Products page is loaded | | Successful | |
| 2 | Fill in the required information on the form, then press Search button. | 1 Tricycle | Information related to the product with product ID 1 and product name Tricycle will be displayed | | Successful | |
| 3 | Presses the delete button once the admin has confirmed that the displayed product is the one he/she wishes to delete. | | Modal displayed asking for confirmation | | Successful | |
| 4 | Presses Yes on the modal | | Delete Products page reloaded, indicating that the form has been submitted | | Successful | |
| _ | | | Test Case Status | Successful | | |

3.42.4 Scenario 2

| | Test Case | | | | | | | |
|------------|---|---------------------|--|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Click on Delete Products option in the navbar | | Delete Products page is loaded | | Successful | | | |
| 2 | Fill in the required information on the form, then press Search button. | 1 Tricycle | Information related to the product with product ID 1 and product name Tricycle will be displayed | | Successful | | | |
| 3 | Presses the delete button once the admin has confirmed that the | | Modal displayed asking for confirmation | | Successful | | | |

| | displayed product is the one he/she wishes to delete. | | | | |
|---|---|---|------------|------------|--|
| 4 | Presses No on the modal | Returns to the same form with the details about the product being displayed | | Successful | |
| | | Test Case Status | Successful | | |

3.43 Test Case T42: Checking whether the product has been deleted from the inventory or not - Admin - Muhammad Raahem Asghar

3.43.1 Description

This test case ensures that after the delete product form has been submitted, it is not being displayed in the inventory i.e. it has been removed from the inventory

3.43.2 Pre-conditions for this test case

The user should have an active WiFi connection, the admin is logged in StoreX and has just submitted the Delete Products form

3.43.3 Scenario 1

| | Test Case | | | | | | | |
|------------|--|---------------------|---|--|-----------------------|------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Click on View Inventory option in the navbar | | Delete Products page is loaded | | Successful | | | |
| 2 | Try to find the deleted product in the inventory | | The product Tricycle and its related details have been removed from the inventory | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.44 Test Case T43: Add Category Form Submission - Admin - Muhammad Raahem Asghar

3.44.1 Description

This test case ensures that the add category form is being displayed and the new category is being added to the database and the appropriate output is being displayed or not

3.44.2 Pre-conditions for this test case

The user should have an active WiFi connection, the admin is logged in StoreX.

3.44.3 Scenario 1

| | Test Case | | | | | | | |
|------------|--|--|-----------------------------|--|-----------------------|---------------------------|--|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | | |
| 1 | Click on Add Category options in the navbar | | Add Category form is loaded | | Successful | | | |
| 2 | Fill in the required information on the form, then press Add Product button. | 1 st field is automatically filled School | Message displayed: Category | | Successful | | | |
| | | | Test Case Status | Successful | | | | |

3.44.4 Array of values

| Array of values | | | | | | | |
|-----------------|--|--|--|--|--|--|--|
| | Scenario 2 Scenario 3 Scenario 4 Scenario 5 Scenario 6 | | | | | | |
| Value1 | | | | | | | |

| Expected Result | Dialog box with the message: Please fill the empty field | | |
|----------------------------|--|--|--|
| Actual Result | | | |
| (if different from | | | |
| expected) | | | |
| Successful/Failed | Successful | | |
| Environment Nbr (if | | | |
| failed) | | | |
| Log Number (if failed) | | | |

3.45 Test Case T44: Check whether the category has been added to StoreX - Admin - Muhammad Raahem Asghar

3.45.1 Description

This test case ensures that upon adding the category, it is being displayed on the user side of the webapp

3.45.2 Pre-conditions for this test case

The user should have an active WiFi connection, logged in the Admin side and has just added a new category

3.45.3 Scenario 1

| | Test Case | | | | | | |
|------------|---|---------------------|--|--|-----------------------|---------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Admin opens the StoreX webapp by entering the URL | | Homepage is displayed | | Successful | | |
| 2 | Checks the navbar | | The new category has been added to the end of the navbar | | Successful | | |
| | | | Test Case Status | Successful | | | |

3.46 Test Case T45: Sales Analytics Table being displayed or not after entering a date - Admin - Muhammad Raahem Asghar

3.46.1 Description

This test case ensures that the sales analytics functionality is working for the admin as intended by entering different dates and checking the output for each scenario

3.46.2 Pre-conditions for this test case

The admin is logged in into the admin side of StoreX

3.46.3 Scenario 1

| | | | Test Case | | | |
|------------|---|---------------------|---|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Clicks on sales analytics in the navbar | | Sales Analytics page is loaded | | Successful | |
| 2 | Clicks on daily tab | | Dropdown menus appear in which the admin needs to enter the day, month, year | | Successful | |
| 3 | Selects the day, month, year from the dropdown and clicks the search icon | 2021 April 26 | The daily number of products sold along with their total are displayed in the form of a table | | Successful | |
| | | | Test Case Status | Successful | | |

3.46.4 Array of values

| Array of values | | | | | | | |
|--|--|-------|------|------|-------|--|--|
| Scenario 2 Scenario 3 Scenario 4 Scenario 5 Scenario 6 | | | | | | | |
| Value1 | | 2021 | 2021 | 2021 | 2021 | | |
| Value2 | | April | | | March | | |
| Value3 | | | | 6 | 25 | | |

| Expected Result | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: No products were sold in this period |
|--|---|---|---|---|---|
| Actual Result (if different from expected) | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | Successful |
| Environment Nbr (if failed) | | | | | |
| Log Number (if failed) | | | | | |

3.46.5 Scenario 7

| | | | Test Case | | | |
|------------|--|---------------------|---|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Clicks on sales analytics in the navbar | | Sales Analytics page is loaded | | Successful | |
| 2 | Clicks on monthly tab | | Dropdown menus appear in which the admin needs to enter the day, month, year | | Successful | |
| 3 | Selects the year, month from the dropdown and clicks the search icon | 2021 April | The monthly number of products sold along with their total are displayed in the form of a table | | Successful | |
| | | | Test Case Status | Successful | | |

3.46.6 Array of values

| Array of values | | | | | | |
|-----------------|------------|-------------|-------------|-------------|--|--|
| Scenario 8 | Scenario 9 | Scenario 10 | Scenario 11 | Scenario 12 | | |

| Value1 | | 2021 | 2021 | 2021 | 2021 |
|--|---|---|---|---|---|
| Value2 | | April | | | March |
| Expected Result | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: No products were sold in this period |
| Actual Result (if different from expected) | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | Successful |
| Environment Nbr (if failed) | | | | | |
| Log Number (if failed) | | | | | |

3.46.7 Scenario 13

| | | | Test Case | | | |
|------------|---|---------------------|--|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Clicks on sales analytics in the navbar | | Sales Analytics page is loaded | | Successful | |
| 2 | Clicks on yearly tab | | Dropdown menus appear in which the admin needs to enter the day, month, year | | Successful | |
| 3 | Selects the year from the dropdown and clicks the search icon | 2021 April | The yearly number of products sold along with their total are displayed in the form of a table | | Successful | |
| | | | Test Case Status | Successful | | |

3.46.8 Array of values

| | Array of values | | | | | | | | |
|--|---|---|---|---|---|--|--|--|--|
| | Scenario 14 | Scenario 15 | Scenario 16 | Scenario 17 | Scenario 18 | | | | |
| Value1 | | 2021 | 2021 | 2021 | 2021 | | | | |
| Expected Result | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: Incorrect Date entered | Dialog box with the message: No products were sold in this period | | | | |
| Actual Result (if different from expected) | | | | | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | Successful | | | | |
| Environment Nbr (if failed) | | | | | | | | | |
| Log Number (if failed) | | | | | | | | | |

3.47 Test Case T46: User Logout – Muhammad Raahem Asghar

3.47.1 Description

This test case ensures that the user has successfully logged out of his/her account.

3.47.2 Pre-conditions for this test case

The user should have an active WiFi connection, the user is logged in StoreX and is on any page of the webapp

3.47.3 Scenario 1

| | | | Test Case | | | |
|------------|--|---------------------|---|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | User presses the logout option in the navbar | | Redirected to homepage and green Signed in not written in | | Successful | |

| | the navbar and is replaced by login confirming that the user has logged out. | | |
|--|--|------------|--|
| | Test Case Status | Successful | |

3.48 Test Case T47: Admin Logout - Muhammad Raahem Asghar

3.48.1 Description

This test case ensures that the admin has successfully logged out of his/her account.

3.48.2 Pre-conditions for this test case

The user should have an active WiFi connection, the admin is logged in admin side of StoreX and is on any page of the webapp

3.48.3 Scenario 1

| | Test Case | | | | | |
|------------|---|---------------------|--|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Admin presses the logout option in the header | | Redirected to login screen and asked to enter login credentials if he/she wants to login again | | Successful | |
| | | | Test Case Status | Successful | | |

3.49 Test Case T48: Checking whether web app is available at any time - Muhammad Haris

3.49.1 Description

The webapp should be always available to the users.

3.49.2 Pre-conditions for this test case

There is no internet connectivity issue for the user.

3.49.3 Scenario 1

| | | | Test Case | | | |
|------------|-----------------------------------|---------------------|-----------------------|--|-----------------------|------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Open the user webapp at 10:45 pm | | Displays the homepage | | Successful | |
| 2 | Open the admin webapp at 10:45 pm | | Displays the homepage | | Successful | |
| · | | • | Test Case Status | Successful | | · |

3.49.4 Array of values

| | Array of values | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | Scenario 2 | Scenario 3 | Scenario4 | Scenario 5 | | | | |
| Time of test for user and admin side | 12:00 am | 4:00 am | 10:00 am | 2:00 pm | | | | |
| Expected Result | Displays the homepage for admin and user | | | | |
| Actual Result (if different from expected) | | | | | | | | |
| Successful/Failed | Successful | Successful | Successful | Successful | | | | |
| Environment Nbr (if failed) | | | | | | | | |
| Log Number (if failed) | | | | | | | | |

3.50 Test Case T49: Checking whether the web app loads within 5 seconds - Muhammad Raahem Asghar

3.50.1 Description

This test case is done to measure the time taken by the web app to load and ensure that it meets the requirement of less than 5 seconds as set before.

3.50.2 Pre-conditions for this test case

User has an active internet connection and a web browser and has the website: https://developers.google.com/speed/pagespeed/insights/ open

3.50.3 Scenario 1

| | Test Case | | | | | | |
|------------|---|---------------------|---|--|-----------------------|---------------------------|--|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) | |
| 1 | Copy and paste the link to the web app in the website mentioned in the precondition and press Analyze | | The time taken to load would be less than 5 seconds | | Successful | | |
| | | | Test Case Status | Successful | | | |

3.51 Test Case T50: Checking whether the web app opens properly on mobile - Muhammad Raahem Asghar

3.51.1 Description

This test case is done to ensure that the web app opens properly on a mobile, so that it is usable from the mobile phone as well.

3.51.2 Pre-conditions for this test case

User has an active internet connection and an Android phone or an iPhone

3.51.3 Scenario 1

| | | | Test Case | | | |
|------------|--|---------------------|-----------------|--|-----------------------|---------------------------|
| UC Step | Step Description | Data/Value (1 to n) | Expected Result | Actual Result (if different from expected) | Successful/F ailed | Log Number (if failed) |
| 1 | Open the webapp in the browser of the device | | | The layout is distorted, is not | Failed | |

| | | portable i.e. cannot be used from the mobile device | |
|--|------------------|---|--|
| | Test Case Status | Failed | |
| | | | |

4. Summary of manual testing results

A total of 50 test cases, out of which 47 were functional and 3 were non-functional, were tested in manual testing. 49 test cases passed, and only 1 test casefailed. The testing carried out was grey box testing as the testers were not completely aware of the underlying implementation of the functionality of the web application. We tested individual components as well as how well they are integrated with each other overall. In almost all of the testing, valid and invalid outputs were given to see whether the web app functions as per the requirements or does it crash for invalid inputs. The UI was overall responsive to all user actions like the cards highlighting on the user side and the web application was interacting with the user through dialog boxes, messages, modals, tooltips etc. All in all, the testing results of the main use cases of our web application were mostly positive and were handled correctly and the use cases were properly functioning for various edge cases. We learned how to systematically go about testing a software or application, and organizing all tests in separate test cases, and further dividing them into scenarios in tabular formats helped us test the web app in an organized manner. This enabled us to test both the user and admin side of StoreX thoroughly. In the future, further testing can be done as the web app scales to a large number of users as well as more products in its inventory, as that can help us determine if StoreX is scalable and works well under potential heavy load from many users visiting it at the same time.

4.1 Muhammad Raahem Asghar

I conducted 21 test cases, out of which only 1 failed. These 21 cases were divided into 19 functional requirements test cases and 2 non-functional test cases. The expected output of different outputs of the test cases was compared with the actual output for different scenarios and through this comparison it could be determined that the test case was passing or not. In the test cases dealing with the functional requirements, validation and defect testing was done by entering valid and invalid inputs to observe the behavior. The test case dealing with the portability of the web app (non-functional requirement) failed as the layout of the web app was not being displayed properly on the smaller resolution screen. All in all, almost all of the test cases assigned to me were passing.

4.2 Muhammad Haris

The tests conducted by me were successful. Different scenarios were checked, and the web app did not fail. Total of 15 test cases were run. 14 functional test cases and 1 non-functional test case. Non-functional test case was related to the availability of the web app, which was checked by opening the web app at different times. For functional testing the expected actions from the users were performed and it was checked if the app behaved as it should. All my tests except the on for search did not require a direct user input but clicking specific buttons. So, the expected flow for the user was followed and tested.

4.3 Muhammad Hamza Sajjad

I conducted 14 functional test cases, which all passed successfully. The primary focus was on testing the shopping cart functionality on the user side, and the inventory and update products functionalities on the admin side. The expected outputs in these tests matched the actual outputs. The testing types were validation and defect testing. In validation testing, I entered values as one would do in regular usage, and hence tried to determine if it was working correctly and as intended. In defect testing, I intentionally entered invalid inputs which were mean to 'break' the system, and so it is useful for detecting any potential bugs. I also detected a few typos, which were then fixed by the development team.

5. Acceptance Testing

5.1 Environment Used for User Side

| Machine Name | HP Pavilion Q741NVOK | DB Directory | https://console.firebase.google.com/u/0/project/software-engineering-123/database/software-engineering-123-default-rtdb/data | | | |
|---------------|--|--------------|--|---|----------------------------|---|
| Machine Specs | Intel® Core™ i5- 8250U CPU @ 1.60GHz 1.80 GHz, 12GB RAM, 1TB HDD | DB | Firebase | | Client Server /Back-End | https://console.firebase.google.com/u/ 0/project/software-engineering- 123/overview |
| Device name | HP Pavilion Q741NVOK | | Device specs | Intel® Core™ i5-8250U CPU @ 1.60GHz 1.80 GHz, 12GB RAM, 1TB HDD | | |
| Tester Name | Roshan Asghar | | Test Date | 26 th April, 2021 | | |

5.2 Environment Used for AdminSide

| Machine Name | Dell Latitude | DB Directory | https://console.firebase.google.com/u/0/project/software-engineering-123/database/software- | | | |
|----------------------------|--------------------------------|--------------|---|--|---------------|--|
| | 3500 | | engineering-123-default-rtdb/data | | | |
| Machine Specs | Intel® Core TM i5- | DB | Firebase | | Client Server | https://console.firebase.google.com/u/ |
| | 8265U CPU @ | | | | /Back-End | 0/project/software-engineering- |
| | 1.60GHz 1.80 | | | | | 123/overview |
| | GHz, 8GB RAM, | | | | | |
| | 1TB HDD | | | | | |
| Device name | Device name Dell Latitude 3500 | | Device specs | Intel® Core™ i5-8265U CPU @ 1.60GHz 1.80 GHz, 8GB RAM, 1TB HDD | | |
| Tester Name Raacikh Asghar | | Test Date | 26 th April, 2021 | | | |

5.3 Test Cases for Acceptance Testing

5.3.1 User

| Test Case ID | Successful/Failed | General Feedback |
|-------------------------------|-------------------|---|
| Module: Login and Signup | | |
| T01, T03, T06 | Successful | The interface is user friendly. It was easy to navigate to the login tab and the sign up process was pretty smooth and easy. To confirm I was logged in on the user side, "Signed In" was written in the the options menu found on the left. Other than that, after pressing refresh, I was still logged in. |
| Module: Homepage | ~ | |
| T18, T19, T20 | Successful | The homepage has a very user-friendly interface, is easy to navigate to and from, has a fully functional sidebar and toolbar, and every button shown on the page is functional and smooth. The search bar is right there in front of you and not that hard to locate. The search feature is very accurate as it didn't show me any items that weren't in the database and also didn't show me any incorrect results. When I searched for something that didn't exist in the store's database, a blank page appeared indicating that the searched item wasn't available. |
| Module: Shopping Cart | | |
| T09, T10 | Successful | After signing up and then logging in, I went through the catalog of products and selected a product of my choice. I added the item in my cart, the number on top of the cart icon incremented and navigated to the cart to place my order. The items were successfully added to the cart. Placing the order was pretty easy and straightforward too. I was given the appropriate message as soon as my order was placed. |
| Module: Ordering and Checkout | | |
| T25, T29 | Successful | To check whether my order had actually been placed, I navigated to the My Orders tab which was, again, very easy to locate. I was shown my order under the |

| Module: Rating a Product | | Pending tab and I could access all my details when I clicked on the view details tab. After having received my order, the admin marked it as delivered and my order moved from the Pending section to the Past Orders section with all the details with it. |
|--------------------------|------------|---|
| T32 | Successful | To rate the product I had ordered, I easily navigated to it from the grocery section and opened the said product. There I could see the 5 stars to rate the product out of. I gave it my rating and I could see it under the product. |
| T46 | Successful | Once I was done with my online shopping, I wanted to logout. When I clicked on logout from the options on the left, I was redirected to the homepage and to confirm if I had logged out, I checked that the left menu showed the login option rather than the logout one that was being shown before. |

5.3.2 Admin

| Test Case ID | Successful/Failed | General Feedback | | | |
|--------------------------|-------------------|---|--|--|--|
| Module: Login and Signup | | | | | |
| T02 | Successful | After opening the link of StoreX admin side, I was shown the login page of the admin side. I logged in using the provided credentials. The interface was easy to follow. To confirm I was logged in, the Add Products page was opened with the name of the owner of the admin account in the top right of the page. Other than that, after pressing refresh, I was still logged in. | | | |
| Module: Add Products | | | | | |
| T33, T34 | Successful | When I wanted to add products to the store, I navigated to the Add Products page from the numerous options on the left, which opened an Add Product form. When I filled the details of a product and pressed submit, the page reloads and the add product form is displayed | | | |

| | | again indicating that the product has been added which is confirmed on checking the inventory for the product I just added. |
|--------------------------------|------------|--|
| Module: View Inventory | | |
| T35 | Successful | When I pressed the View Inventory option on the left menu, I was redirected to a page which shows the current inventory of the store with full description of the items in stock along with those that have been sold so far. |
| Module: Ordering and Checkout | | |
| T26, T27, T28 | Successful | When I want to check whether I have pending orders or not, I navigate to the Orders section by selecting the Orders option from the left menu and just mark them delivered if I have any. Marking them makes them disappear from the page confirming that they've been delivered. |
| Module: Delete Products | | |
| T40, T41, T42 | Successful | If I want to delete a product, I navigate to the Delete Product section which shows me a delete product form. I search for the product first by entering its details. Then once the details of the product appear on the screen in a tabulated form, I press the delete button which causes a pop-up to appear asking for confirmation. When I press No, I get returned to the same page but if I press Yes, I get redirected to the original Delete Products page. Other than that when I try to find an item that isn't in the inventory, I get a pop-up stating that the said item doesn't exist. In order to make sure that the product I deleted has been removed, I go to the inventory to double check and see that it has indeed been removed. |
| Module: Logout | 9 01 | |
| T47 | Successful | After using the admin functionalities, I wanted to logout. When I clicked on logout from the dropdown menu on the top right, I was redirected to the admin login screen, indicating that I had successfully logged out. |

5.4 Summary of Acceptance Testing

Acceptance testing was done by two end users who did not know the underlying implementation of the features of the system i.e. black box testing. One end user was assigned with the task of testing the user side whereas another end user was assigned with the task of testing the admin side. For the admin side, login credentials were provided to the end user so that he could access and test the admin features. Different modules of the system were tested by both the end users and their general feedback was recorded. By the above tables, it can be seen that the test cases were passing and the general feedback was positive. The end users were relatively satisfied with the end system.