

TEST PLAN

Project Name: WALCART

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Objective

“WALCART” is an E-commerce platform. As part of the platform, asked AL EMRAN NAYEM to test its Order Process functionalities “<https://www.walmart.com/>” web application.

This document serves as a high-level test planning document with details on the scope of the project, test strategy, automation strategy, test schedule, resource requirements, test deliverables, roles/responsibilities, and schedule.

Scope

The scope of the project includes testing the ordering process features of the '<https://www.walcart.com/>' web application.

Features To Be Tested

- Registration
- Login and Logout
- Forget Password
- Search
- Product Category
- Product Display page
- Add to cart
- Quantity
- Add to wish list
- View cart
- My cart
- Checkout page
- Shipping Page
- Review and Payment page
- Place order page
- My order page

From my understanding, I believe these features need to be tested.

Features Not To Be Tested

- All the features other than the above need not test.
- Any third-party features.
- Payment gateway.

Test Environments

- Windows 11 – Chrome, Firefox, and Edge.
- Android Mobile OS- Chrome.

Test Strategy

As understanding the ordering process, we need to test the functionalities of the process and perform the Functional Testing mentioned in the above scope section.

As part of the Functional Testing, We need to follow the below approach for testing:

Step1:

- We'll apply several test design techniques for creating Test Cases
 - ✓ Use Case Testing
 - ✓ Equivalence Class partition
 - ✓ Boundary Value Testing
 - ✓ Decision table Testing
 - ✓ State Transition Testing
- We also use our expertise in creating Test Cases by applying –
 - ✓ Exploratory Testing
 - ✓ Error Guessing

Step2:

- Functional Testing- Test order processing features of 'WALCART' to identify things the application can do as per expectations.
- Smoke Testing- To check whether the different and important functionalities of the application are working. If the Smoke testing fails, we reject the build and wait for a stable build.
- Usability Testing- Testing the ease with which the user and testing whether the application builds are user-friendly or not.
- As part of the Testing, we will perform the below types of Testing-
 - ✓ Regression and Retesting
 - ✓ UI testing

Step3: For best practice, we will do some more testing for making testing better-

- Exploratory Testing- By using expertise, we will perform exploratory testing, apart from the normal execution of the test cases.
- Flow and Scenario Testing- Apart from testing individual features, flows and scenarios will be created to replicate end-user actions with the system.
- Context Driven Testing- We will perform testing as per the context of the given application.

Automation Strategy

- We are going to use Selenium Web Driver for automation test cases.
- Java Programming for Enhancing Test Cases.
- TestNG Testing Framework for Grouping Test Cases, Prioritizing Test Cases, Executed Test Batches, and Generating Test Results.
- Maven Integration for creating and maintaining Selenium Test Environment.

WALCART Application Automation

| Page Classes | Test Classes | Test Cases | Expected Results |
|-------------------------|------------------------------|---|--|
| Index Page | Index Page Test | WALCART Logo Test WALCART Title | The logo should be present. The title should match the expected value. |
| Login Page | Login Page Test | Login Test | The user should be able to log in. |
| Home Page | Home Page Test | Product List Wish List Test Order History and details | The product should be displayed. A wish List should be displayed. Order History should be displayed. |
| Account Creation Page | Account Creation Test | Create Account | Users should navigate to the account creation page. |
| Search Result Page | Search Result Page Test | Product Availability Test | Search the product and the product should be displayed. |
| Add to Cart Page | Add to Cart Page Test | Add To Cart | The user should be able to the product in the cart. |
| Check Out Page | Check Out Page Test | Check Out | The user should proceed to check out products. |
| Shipping Page | Shipping Page Test | Shipping | The user should proceed to ship the products. |
| Address Page | Address Page Test | Address | The user should give and edit their address. |
| Review and Payment Page | Review and Payment Page Test | Review and Payment | The user should select the payment method. |
| Order Page | Order Page Test | Order Page | The user should be able to see the order details. |

Defect Reporting Procedure

- Identify a Defect- We need to find defects before becoming a critical problem.
- Report a Defect- When a Defect identified, need to assign is known issues to the development team for further evaluation and fixing process.
- Acknowledge Defect- Once it is assigned as a defect, now it's the responsibility of the development team to fix it.
- Any usability issues will also be reported.

Test Deliverables

The following are to be delivered to the client:

| Deliverables | Description | Target Completion Date |
|---------------------------|---|-----------------------------------|
| Test Plan | Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables, and schedule | September 25 th , 2022 |
| Automation Implementation | The ordering process of 'WALCART' Automation is completed. | September 25 th , 2022 |

Entry and Exit Criteria

Entry Criteria:

- Testable Requirements Specific Documents
- Test Plan Documents
- Test Scenario and Test Case Documents
- Test Case Reports and Defect Reports are Ready

Exit Criteria:

- Zero Installer Defects
- Completion of Planned Test Cases Execution
- Test Summary Reports.

Tools

- Word and Excel documents
- Snipping Screenshot Tool
- Bug Tracking Tool

Roles/Responsibilities

| Name | Role | Responsibilities |
|-----------------|--------------|---|
| Mr. Rajib Ghosh | Test Manager | ✓ Escalations |
| AL Emran Nayem | Test Lead | ✓ Create the Test Plan and get the client signoffs ✓ Implements Automation Test. |

Test Schedule

Following is the test schedule planned for the project –

| Task | Time Duration |
|----------------------|-----------------------------------|
| Creating Test Plan | September 25 th , 2022 |
| Implement Automation | September 25 th , 2022 |

Risk and Mitigations

| Risk | Mitigations |
|---------------------------------|---------------------------------------|
| Resource unavailability | Backup Resource plan |
| Hardware failure during testing | Backup hardware resources |
| Build URL is not working | The resource will work on other tasks |

Approvals

The team needs to Approval different documents like the below:

- Test Plan
- Test Scenario
- Test Case
- Reports