Test plan document

Name of project: Sauce Demo Shopify(E-commerce site)

Prepared by: Ronish Shrestha

Contents :

Introduction

Project name: sauce demo my Shopify app (e-commerce site)

Sauce Demo is a dummy e-commerce website designed to provide an e-commerce platform with multiple features, including user authentication, product sorting and filtering, adding items within a cart, removing items, and completing the checkout process.

The purpose of this Test Plan is to ensure that the Sauce Demo Shopify App meets its functional, usability, and quality requirements, providing users with a seamless shopping experience.

Objectives

Verify that the sauce demo website is properly functional and fulfills all the user requirements.

1) All core e-commerce functionalities: login, product browse, cart, and checkout should work as expected.
2). Ensure cross-browser compatibility in Chrome, Firefox, and Edge.
3. Identify and document the usability or the functional defects.

In-scope :

The scope of the following test will include :

1. **Home Page:**
   Verify the layout, navigation, and responsiveness of the page.
   Ensure links and buttons work correctly.

2. **User Authentication:**
   Test the login and sign-up functionality using valid and invalid credentials.
   Verify password recovery.

3. **Browse Products:**
   Test filtering and sorting of products.
   Verify product details: name, price, and available quantity.

4. **Shopping Cart:**
   Test the ability to add and update items, as well as remove them.
   Ensure calculation of cart total, including discount and tax calculations.

5. **Checkout Process:**
   Validate input field validation for shipping and billing details.
   Ensure the checkout flow and order confirmation go smoothly.

6. **6) Cross-Browser Testing:**
   Verify the functionality of the website on Google Chrome, Mozilla Firefox, and Microsoft Edge.

7. **Search Functionality:**
   Test the search functionality for valid, invalid, and empty queries.
   Assure the search auto-suggestion and result accuracy.

8. **UI:**
   Check the consistency of layout, responsiveness,
   and appeal across different devices.

9. **Error Handling and Alerts**:

   Verify appropriate error messages for invalid user actions.
   Ensure the system handles edge cases gracefully.

Out-of-scope :

1)Backend API testing and integration with external systems.
2. Performance testing: load and stress tests.
3. Vulnerability testing such as SQL injection or cross-site scripting.
4) Database validation or data migration processes.
5. Real-time payment gateway testing, using real-life accounts.

Test approach

The strategy to be used for testing the Sauce Demo Shopify website is manual, supported by functional and usability requirement testing of the application. The following techniques and activities shall be used, among others.

Black-box Testing :

Without looking at the code, performing the testing - input-output-only verification.

Positive Testing:

Performing the expected behavior test with valid inputs/scenarios.

Negative Testing: Testing of handling by the system concerning invalid or boundary-type inputs.

Testing Activities:

1. Testing User authentication with both valid and invalid credentials.
2. Test product catalog navigation, sorting, and filtering.
3. Simulate user flows for adding items to the cart, updating quantities, and proceeding to checkout.
4. Validate error messages and alerts for invalid actions.

Phases of Testing:

Test Case Design: Detailed creation of test cases for every feature.

Test Execution: The execution of test cases and their result documentation.

Requirements :

Hardware

- Devices: laptops, desktops.
- Browser: firefox, edge, chrome, safari.
- Computer with minimum 4 GB RAM.

  Operating Systems:

- **Windows 10**: Default testing platform.

- **macOS**: For Safari browser compatibility.

Test environment :

Staging Environment:

- URL: https://staging.sauce-demo.myshopify.com

- Simulates a production-like setup with dummy data.

Devices:

Desktop testing on Windows 10 (Chrome, Firefox, Edge).

macOS testing on Safari browser.

Inclusion :

Functional Testing
1. Authentication and Authorization
2. Product Browsing
3. Product Details Page
4. Checkout Process
5. Payment Gateway
6. Search Functionality
7. Cross-Browser Testing
8. Shopping Cart Functionality
9. Error Handling and Alerts

Exclusion :

1. API testing
2. Performance testing
3. Security mechanism
4. Database validation
5. Third-party integrations

Test Deliverables :

Test Cases Document: A detailed list of executed test cases with steps and results.

Test Execution Report: A summary of the test execution status, covering passed, failed, and blocked test cases.

Test Summary Report: An overview of testing outcomes and observations for stakeholders.

Conclusion :

This Test Plan outlines a strategy to ensure the Sauce Demo Shopify website meets its functional and usability requirements. By following the methodologies, the product will deliver an error-free and user-friendly shopping experience.