SWAG LABS

Project Name: Swag Labs (Frontend)

Test Plan

Document Author	Document Version	Revised Date	Approved By
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1. Introduction

This document describes some test functionality of [Swag Labs](#) website which is a dummy ecommerce website that provides various features that an ecommerce website has to offer. The objective is to ensure that the Swag Labs Demo website is functional and meets the requirements of the users This document includes the objectives, scope, test responsibilities, entry and exit criteria, approaches, risks, and acronyms.

2. Scope

2.1. In Scope

- **Login**
  - Username and password functionality
  - Login button functionality
  - Valid and invalid login credentials
  - Instruction text

- **Home Page**
  - Company logo clickability
  - Menu icon clickability and navigation
  - Product filtering (A-Z, Z-A, Price Low-High, Price High-Low)
  - Product listing (image, title, description, price, add to cart button)
  - Product detail page navigation
  - Add-to-cart functionality
  - Shopping cart icon functionality (displays the number of items)
  - Navigation to the cart page
  - Footer with social media icons and copyright text

- **Navigation**
  - Hamburger menu functionality (displays vertical navbar)
  - Navbar cross icon functionality (closes navbar)
  - "All Items," "About," "Logout," and "Reset App State" options in the navbar

- **Product Detail Page**
    - Product image
    - Product details: title, description, and price
    - Add to cart and remove from cart functionality
    - "Back to Products" button functionality

- **Shopping Cart Page**
    - Quantity, description, and price of added products
    - Remove product from cart functionality
    - "Go Back to Shopping" and "Checkout" buttons

- **Checkout Process**
    - Billing information form: first name, last name, postal code
    - Continue and cancel buttons
    - Checkout overview: product details, payment information, shipping information, price total
    - Cancel and finish buttons
    - Checkout complete page with a success message and "Back to Home" button

2.2. Out of Scope

- Any feature added later
- Automation testing

3. Quality Objective

This test plan aims to ensure the reliability, system assurance, optimal performance, and capacity utilization of Swag Labs. It focuses on comparing the application's performance to user expectations and enhances the existing system.

4. Testing Methodologies

4.1. Overview

This project will follow an Agile methodology with weekly iterations. Work will be distributed based on requirements, and each feature will be tested individually and collectively. Reports will be delivered according to the schedule. Test cases will be created during exploratory testing.

4.2. Test Levels

In Scope

- **Functional Testing:** Black-box testing geared to the application's functional requirements.
- **Integration Testing:** Verify combined functionality after integration.
- **Performance Testing:** Check if the system meets performance requirements.
- **Cross-browser Testing:** Ensure system support across different browsers.
- **UAT (User Acceptance Testing):** From a tester's perspective.
- **Regression Testing:** Validate existing functionalities as part of regression tests (Cart, Checkout Flow).
- **Progression Testing:** Validate new functionalities.
- **Fixed defects validation.**

Out of Scope

- Database Testing
- API Testing

4.3. Test Strategy

Test case preparation and execution

- QA will create test cases covering all scenarios for requirements.
- Peer review will be conducted on test cases and test matrices.

- Respective QA will execute test cases based on designed scenarios.

- Test results will be documented (actual vs. expected results, pass/fail).

Defect login and reporting

- QA will log defects in the designated management tool.

- Developers will be informed about logged defects.

Retesting

- Fixed bugs will be retested after resolution.

- Regression testing will be conducted if necessary.

Deployment / Delivery

- Once all bugs/defects that have been reported after complete testing are fixed, afterward if no other bugs are found, the report will be deployed to the test site by PM.

- Once QA is done with the testing round on the test site and if it is required, the Report will be delivered along with sample output by email to the respective team member.

- QA will hand over the hard copy of the delivery documents to the respective developer.

4.4. Bug Triage

- Define the resolution type for each bug.
- Prioritize bugs and determine a schedule for all "To Be Fixed" bugs.

4.5. Suspension Criteria and Resumption Requirements

- Define when testing should be suspended (e.g., critical bugs identified).
- Define when testing can resume after suspension (e.g., bugs fixed).

4.6. Test Completeness

- 100% test coverage.

- All manual test cases are executed.

- All open bugs are fixed or will be fixed in the next release.

5. Entry and Exit Criteria

5.1. Entry Criteria

- QA resources understand requirements and completed the FRS document.
- QA resources have sound knowledge of functionalities.
- Test scenarios and test cases are approved.
- Test plan

5.2. Exit Criteria

- Test Cases Execution Completed.

- A certain level of requirements coverage has been achieved. (eg: 80%)

- All critical and high-severity defects (Severity 1 & 2) have been fixed.

- No high-priority defects (e.g., blocking bugs) are outstanding.

- Completion of planned test case execution

- UAT Test Evidence Collected

- Test Closure Memo completed and signed off

6. Test Deliverables

- **Before Testing phase**

    - FRS document.

    - Test plans document.

    - Test scenario.

    - Test cases documents.

    - Test design specifications.

- **During Testing**
  - Test tool simulators.
  - Test data.
  - Test Traceability Matrix.
  - Error logs and execution logs.

- **After Testing Cycles**
  - Test results/reports.
  - Defect report.
  - Installation/test procedures guidelines.
  - Release notes.

7. Resources & Environment Needs

7.1. Resources

- **Description**
  - LAN with at least 5 Mb/s speed.

- **Network**
  - Windows 10, 4GB RAM, 3.4GHz CPU.

7.2. Testing Tools

Test case creation	Microsoft Excel
Test case tracking	Microsoft Excel
Test case execution	Manual
Test case management	Microsoft Excel
Defect management	Jira
Test reporting	Microsoft Excel & Jira

7.3. Configuration Management

- Github

7.4. Test Environment

- **Support Level (Browsers)**

  Windows 10: Edge, Chrome (latest), Firefox (latest), Safari (latest).

8. Risk & Assumptions

- **Risks:**
- Payment methods may fail with internet fluctuations.
- The system may fail to load on old/no-updated browsers with JavaScript disabled.

- **Assumptions:**
- For some optimization of resources, the test plan may fail.
- Maintain backup resources.
- Availability of test tools.
- Skill level of resources.

9. Terms/Acronyms

Terms/Acronyms	Definition
API	Application Programming Interface
PM	Project Manager
QA	Quality Assurance
RTM	Requirement Traceability Matrix
UAT	User Acceptance Testing

10. Approvals

Approved By	Approval Title	Date	Attachment
x	Project Manager	June, 2024	None
y	QA Lead	June 2024	None