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| Swag Labs |
| SWAG LABS – saucedemo.com |
| Test plan |

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# Change log

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# 1. Introduction

This test plan outlines the testing approach, scope, objectives, resources, schedule, and responsibilities for the Swag Labs e-commerce project on url: <https://www.saucedemo.com/> . The goal of testing is to validate that the e-commerce platform functions correctly, provides a secure and seamless user experience, and meets business requirements.

# 2. Objectives

The objectives of testing are:

* To ensure that the core e-commerce functionality (filter, adding to cart, checkout, payment) works as expected.
* To identify and fix bugs before deployment to production.

# 3. Scope of Testing

## 3.1. In-Scope

* **Functional Testing**: filter products, add-to-cart, checkout, and payment processing.

## 3. 2. Out-of-Scope

* **Performance Testing**: Testing the website’s load capacity, stress limits, and scalability. – **no metrics provided to verify actual test results versus client expectation.**
* **Security Testing**: Ensuring that sensitive information (e.g., personal and payment data) is secure. **– There is no section where you can select payment data and provide details.**
* **API Testing**: Testing third-party service integrations (payment gateways, shipping providers). **– There is no documentation on provided endpoints or whether such are exposed for testing.**
* **Cross-browser Testing**: Validating that the e-commerce platform works across different browsers and devices **– tests will be performed only on the latest version of Chrome browser.**
* **Regression Testing**: Ensuring new updates do not break existing functionality. **– there are no plans to add new functionality to this website.**
* Non-e-commerce features (e.g., content management system pages).
* Back-end infrastructure configurations not directly related to the e-commerce functionality.

# 4. Features to be Tested

## 4.1. Core Functionalities

* **Product Catalog Management**: Adding and deleting products.
* **Filtering**: Ensuring users can filter products based on names and prices.
* **Shopping Cart**: Add/remove products, display totals,
* **Checkout Process**: Billing/shipping details, payment method details, order summary.
* **User Authentication**: Sign-in, Sign out.

## 4.2 Non-Functional Testing

* **Usability**: User interface validation, user experience consistency.

# 5. Features Not to Be Tested

* Third-party plugin performance beyond basic functionality integration.
* Content (text, blogs, static information) unrelated to e-commerce transactions.
* Non-production server performance.

# 6. Test Approach

## 6.1. Functional Testing

* **Method**: Manual and automated testing.
* **Tools**: Playwright for UI automation;
* **Language**: JavaScript
* **Coverage**:
  + **Manual testing**: End-to-end coverage of all core e-commerce features.
  + **Automation testing**: Selected E2E tests and selected tests from Login and authentication module.

## 6.2 Usability Testing

* **Method**: Manual testing with a focus on user interaction.
* **Coverage**: Test the interface on desktop for ease of navigation, clear visuals, and intuitive workflows.

# 7. Test Deliverables

* **Test Plan**: This document outlines the approach and scope.
* **Test Cases**: Detailed manual and automated test cases covering functional, performance, security, and usability tests.
* **Test Scripts**: Automation scripts for functional testing.
* **Test Data**: Data sets for positive and negative testing scenarios (valid/invalid user inputs, etc.).
* **Test Reports**: Daily and final test reports summarizing progress, defects, and outcomes.
* **Defect Reports**: Bug tracking through Jira or similar tools, including defect details and status.

# 8. Testing Schedule

| **Phase** | **Start Date** | **End Date** | **Description** |
| --- | --- | --- | --- |
| Test Planning | Oct 10, 2024 | Oct 12, 2024 | Preparation of test strategy, test plan, and test cases. |
| Environment Setup | Oct 13, 2024 | Oct 15, 2024 | Setting up test environment, test data, and tools. |
| Functional Testing | Oct 16, 2024 | Oct 18, 2024 | Manual and automated functional testing. |
| Usability and UI Testing | Nov 19, 2024 | Nov 20, 2024 | Testing user interface, navigation, and responsiveness. |
| Final Test Report Submission | Nov 21, 2024 |  | Final testing summary and closure report. |

# 9. Resources

## 9.1 Personnel

* **Test Manager**: Oversees the testing process, ensures deliverables are met. – N/A for demo project
* **QA Engineers**: Responsible for executing manual and automated tests.
* **Performance Test Engineer**: Focuses on load and performance testing. – N/A for demo project
* **Security Test Engineer**: Conducts security vulnerability assessments. – N/A for demo project
* **Developers**: Assist in fixing defects identified during testing. – N/A for demo project

## 9.2 Tools

* **Automation**: Playwright for functional and regression testing.
* **Bug Tracking**: Jira.

# 10. Risk Management

| **Risk** | **Likelihood** | **Impact** | **Mitigation Strategy** |
| --- | --- | --- | --- |
| The website under test is down with error 400+ | Medium | High | Early testing of all payment options and services. |

# 11. Entry and Exit Criteria

**Entry Criteria**

* Test environment is fully set up.
* Functional requirements and design documents are finalized.
* Code has passed unit testing by the development team.

**Exit Criteria**

* All test cases have been executed with a pass rate of at least 95%.
* All critical and high-priority bugs have been resolved.
* No major issues are present in usability tests.

# 12. Test Reporting

* **Daily Reports**: Progress reports showing tests executed, tests passed, and defects logged.
* **Final Test Summary**: A comprehensive report detailing test coverage, test case results, outstanding defects, and risk assessment before go-live.