

Manual Testing of SauceDemo E-commerce Website

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1.0 Introduction

1.1 Purpose & Objectives

This document outlines the strategy, scope, and approach for the manual testing of the SauceDemo (Swag Labs) e-commerce web application. The primary objectives of this testing cycle are:

- **Functional Validation:** To ensure all core user workflows—from login to logout—function as specified under standard conditions.
- **Defect Identification:** To systematically uncover, document, and report defects related to functionality, user interface (UI), and data integrity.
- **Quality Gate:** To provide a confidence assessment on the application's stability and readiness for further stages of development or release.
- **API Integrity Check:** To validate the reliability and correctness of backend API services supporting the frontend application.

1.2 Project/Product Overview

- **Product Name:** SauceDemo (Swag Labs)
- **Application URL:** <https://www.saucedemo.com/>
- **Description:** SauceDemo is a standardized demo environment for an e-commerce website. It simulates a complete online shopping experience, allowing users to authenticate, view a product inventory, manage a shopping cart, and complete a purchase.

2.0 Test Scope

2.1 In-Scope (Features to be Tested)

The following modules and functionalities are within the scope of this test cycle:

- User Authentication:
 - Login with valid and invalid credentials.
 - Logout functionality.
- Product Management:
 - Accuracy of product listing and details (name, image, description, price).
 - Functionality of sorting mechanisms (A to Z, Z to A, Low to High price, High to Low price).
- Shopping Cart Management:
 - Adding items to the cart from the product page.
 - Removing items from the cart from both the product page and the cart view.
 - Accuracy of cart item count and total calculation.
- Checkout Workflow:
 - End-to-end process from the cart to order confirmation.
 - Validation of input fields on the "Checkout: Your Information" page.
 - Accuracy of the order summary on the "Checkout: Overview" page.
- User Interface (UI) Verification:
 - Consistency, alignment, and visibility of key UI elements (buttons, fields, labels).
- API Functional Testing:
 - Direct testing of backend endpoints using Postman.
 - Validation of HTTP status codes (e.g., 200 OK, 400 Bad Request, 401 Unauthorized).
 - Verification of response payloads for correctness and structure.
 - Assessment of error handling for invalid requests.

2.2 Out-of-Scope

The following are explicitly excluded from this test cycle:

- Performance, Load, and Stress Testing.
- Security/Penetration Testing (e.g., SQL injection, XSS).
- Compatibility Testing across different browsers and devices.
- Accessibility (WCAG) Compliance Testing.
- Mobile Responsiveness Testing.

3.0 Test Strategy & Approach

A black-box testing approach will be employed, focusing on the application's functionality without reference to its internal code structure. Testing will be conducted through manual interaction with the UI and direct API calls.

- Functional Testing: Test cases will be derived from user stories and business requirements to validate all in-scope features.
- GUI Testing: The UI will be verified for consistency and adherence to expected design standards.
- API Testing: Backend endpoints will be tested independently to ensure data integrity and proper service layer functionality.

4.0 Test Deliverables

The following artifacts will be produced and delivered upon completion of the test cycle:

1. Test Plan (This Document)
2. Test Scenarios & Test Cases: A comprehensive suite of detailed test cases with preconditions, steps, expected results, and postconditions.
3. Test Data: The set of data (user credentials, product info, etc.) used for test execution.
4. Test Execution Report: A log of executed test cases along with their results (Pass/Fail).

5. Defect Reports: A detailed record of all identified bugs, including steps to reproduce, severity, priority, and supporting evidence.
 6. Test Summary Report: A final report summarizing testing activities, results, metrics, and a conclusion on the application's quality.
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5.0 Testing Environment & Tools

- Application Under Test (AUT): <https://www.saucedemo.com/>
- Test Environment: Production-mirror demo environment.
- Operating System: Windows 10/11
- Browser: Google Chrome (Latest Stable Version)
- API Testing Tool: Postman
- Test Management: Google Sheets / Excel for test cases and defect tracking.
- Evidence Capture: Snipping Tool / Lightshot / Browser DevTools.

6.0 Entry & Exit Criteria

6.1 Test Entry Criteria (When to Start Testing)

- The test environment ([saucedemo.com](https://www.saucedemo.com/)) is stable and accessible.
- Requirements for the in-scope features are stable and understood.
- The test plan is reviewed and approved.
- Test cases are written and ready for execution.

6.2 Test Exit Criteria (When to Stop Testing)

- All test cases for in-scope features have been executed.
- All critical and high-severity defects have been logged, and none remain open that would block a release.
- The pass rate for test cases in critical modules (Login, Cart, Checkout) meets or exceeds 95%.
- The Test Summary Report has been delivered and signed off.

7.0 Test Closure

This test cycle will be formally closed once all Exit Criteria have been met. The final Test Summary Report will serve as the official record of testing activities, outcomes, and the overall quality assessment of the SauceDemo application for this release cycle.