[Test Plan] SauceDemo Website – Login, Sorting, Logout (v1.0)

| Document Status | FINAL |
| --- | --- |
| Version | v1.0 |
| Test Plan Creator | [Putri Stephanie L](mailto:putri.stephanie16@gmail.com) |
| Test Plan Reviewer | M Ridhwan K |
| Date Created | 2 Oct 2025 |

# Introduction

## Overview Feature to be tested

This Test Plan outlines the testing approach for the SauceDemo website, covering **Login**, **Sorting**, and **Logout** features. It defines the **objectives**, **scope**, **approach**, and **deliverables**, ensuring clear communication of what is in and out of scope, and how testing will be conducted to ensure product quality and reliability.

## Goals and Objective

The **SauceDemo** website serves as a platform for validating key user interactions within an e-commerce flow. This Test Plan focuses on three primary functionalities: **Login**, **Sorting**, and **Logout**.

The objectives of this testing phase are to:

* Verify that users can **log in** successfully using valid credentials, and that appropriate error handling occurs for invalid inputs or unstable connections.
* Ensure the **sorting feature** functions correctly, displaying products in the proper order based on the selected criteria:  
  + Price: Low to High and High to Low
  + Name: A–Z and Z–A
* Confirm that the **logout process** securely ends the user session and redirects users appropriately.

This phase aims to ensure that these core features perform accurately, consistently, and provide a reliable user experience.

# Test Item

List of test items (feature / product)

| No | Feature | Test Item |
| --- | --- | --- |
| #1 | Login | 1. Login with valid credentials 2. Login with invalid credentials 3. Login with user doesn’t exist 4. Verify error message display for empty username or password 5. Verify session persistence after successful login (page refresh) |
| #2 | Sort | 1. Sort product price High to Low 2. Sort product price Low to High 3. Sort product name A-Z 4. Sort product name Z-A 5. Verify sorting persists or resets after page refresh |
| #3 | Logout | 1. Function logout work properly 2. Verify redirection to login page after logout 3. Confirm session termination — user cannot access the dashboard via back navigation |

# In Scope Testing

List of features to be tested

| No | Feature | Requirement / Design specifications |
| --- | --- | --- |
| #1 | Login | • Verify login functionality for valid and invalid users.  • Check proper error messages for invalid/empty credentials.  • Confirm session persists after successful login.    *Figure 1. Login Page* |
| #2 | Sorting | • Verify sorting options for Price (Low→High, High→Low) and Name (A–Z, Z–A).  • Confirm correct order is displayed based on selected criteria.  • Check sorting persists or resets correctly after refresh.    *Figure 2. Sorting Dropdown* |
| #3 | Logout | • Verify logout process works correctly and redirects to login page.  • Confirm user session is terminated and cannot return via back navigation.    *Figure 3. Logout Option (Menu)* |

# Out of Scope Testing

List of features not included in this testing phase

| No | Feature | Reasons |
| --- | --- | --- |
| #1 | Register / Account Creation | Not included in the SauceDemo website; this phase focuses solely on validating login, sorting, and logout functions. |
| #2 | Shopping Cart & Checkout | These features are outside the current test scope and will be covered in future testing phases. |
| #3 | UI Responsiveness / Cross-Browser Testing | Current testing is limited to functional verification on a single browser (e.g., Chrome). |
| #4 | Performance & Load Testing | Non-functional testing such as performance or stress testing is not part of this phase. |

# Testing Approach

Summary of testing approach that will be implemented during testing phase

The testing process for the **SauceDemo** website will adopt a **manual exploratory testing** approach within an **agile development framework**. Testing will be conducted in short iterative cycles, where each iteration focuses on validating the key functionalities — **Login**, **Sorting**, and **Logout** — to ensure they meet functional and usability expectations.

Since the tester does not have prior knowledge of the system’s internal implementation, **exploratory testing** will be applied to gain insights through hands-on interaction with the application. This method allows the tester to identify both expected and unexpected behaviors, uncover edge cases, and ensure the system operates reliably under various conditions.

Throughout the testing phase, test activities will include:

* Designing and executing manual test cases based on observed functionality.
* Logging defects and usability issues discovered during exploration.
* Retesting fixed issues and validating overall system stability.
* Communicating test results and feedback to the development team for continuous improvement.

All findings will be documented in test reports, ensuring traceability and transparency across testing activities. The goal of this approach is to ensure that the **SauceDemo** website delivers a smooth and error-free user experience before release.

# Test Environment

The testing activities for the **SauceDemo** website will be conducted in a controlled **web-based test environment** designed to simulate end-user conditions. The environment setup ensures that all test executions, validations, and observations are consistent and reproducible.

**Environment Details:**

* **Test Platform:** Web application (<https://www.saucedemo.com/>)
* **Testing Type:** Manual Exploratory Testing
* **Operating System:** macOS
* **Browser(s):** Google Chrome (latest stable version)
* **Network Connection:** Stable internet connection (minimum 10 Mbps)
* **Screen Resolution:** 1366×768 and above

**Test Data Configuration:**

* **User Accounts:**
  + standard\_user
  + locked\_out\_user
  + problem\_user
  + performance\_glitch\_user
  + error\_user
  + visual\_user
* **Password:** secret\_sauce (for all accounts)

**Test Environment Objectives:**

* Provide a stable and isolated environment to execute all manual test cases for **Login**, **Sorting**, and **Logout** functionalities.
* Ensure browser compatibility and consistent behavior across test iterations.
* Enable defect reproduction, retesting, and validation of fixes under the same controlled conditions.

# Test Deliverables

The following key deliverables will be produced during the testing phase of the **SauceDemo** website project. These artifacts ensure that all testing activities are well-documented and traceable throughout the project lifecycle.

#### **1. Test Plan (this document)**

Outlines the testing objectives, scope, strategy, environment, and schedule for validating the **Login**, **Sorting**, and **Logout** functionalities of the SauceDemo website.  
 📄 *Link:* [Test Plan](#_heading=h.gjdgxs)

#### **2. Test Case Document**

Contains detailed manual test scenarios and step-by-step procedures to verify each feature’s expected behavior. Each test case includes the test ID, objective, steps, expected results, and actual outcomes.  
 📄 *Link:* [Test Case](https://docs.google.com/spreadsheets/d/1B7Ny6eTTRJx3dtMzeX92GGPOwup_kI4-/edit?gid=1752511843#gid=1752511843)

#### **3. Defect Report / Bug Report**

Records all issues identified during testing, including bug ID, severity, description, steps to reproduce, expected vs. actual results, and current status. It serves as a communication tool between QA and development teams for tracking and resolution.  
 📄 *Link:* [Bug Report](https://docs.google.com/spreadsheets/d/1B7Ny6eTTRJx3dtMzeX92GGPOwup_kI4-/edit?gid=1814047621#gid=1814047621)

# Testing Timeline

The **testing timeline** outlines the planned duration and sequence of activities for validating the **Login**, **Sorting**, and **Logout** functionalities of the **SauceDemo** website. The timeline is structured to reflect a typical **agile testing cycle** with clear milestones for preparation, execution, and reporting.

| No | Phase | Activity Description | Estimate Duration | Estimation Time | | Actual Time | | Responsible |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Start Date | Finish Date | Start Date | Finish Date |
| #1 | Test Planning | Define testing objectives, scope, strategy, and resources. Prepare the test plan document. | 1 Day | 2 Oct 2025 | 2 Oct 2025 | 2 Oct 2025 | 2 Oct 2025 | QA Engineer |
| #2 | Test Case Design | Identify test scenarios and create manual test cases for Login, Sorting, and Logout. | 1-2 Days | 2 Oct 2025 | 4 Oct 2025 | 2 Oct 2025 | 3 Oct 2025 | QA Engineer |
| #3 | Test Case Review | Review and validate test cases to ensure coverage and clarity. Update if necessary. | 0.5 Days | 4 Oct 2025 | 4 Oct 2025 | 3 Oct 2025 | 3 Oct 2025 | QA Engineer |
| #4 | Test Execution | Execute test cases, perform exploratory testing, and record results. | 2-3 Days | 4 Oct 2025 | 6 Oct 2025 | 4 Oct 2025 | 5 Oct 2025 | QA Engineer |
| #5 | Defect Logging & Retesting | Log defects found during testing, verify fixes, and perform retesting as needed. | 1 Day | 6 Oct 2025 | 6 Oct 2025 | 5 Oct 2025 | 5 Oct 2025 | QA Engineer |
| #6 | Test Summary Reporting | Consolidate results, update Defect Report, and prepare final Test Summary. | 1 Day | 7 Oct 2025 | 7 Oct 2025 | 6 Oct 2025 | 6 Oct 2025 | QA Engineer |

# References

* SauceDemo official website:<https://www.saucedemo.com/>
* SauceDemo product documentation (public demo site reference)
* QA Test Plan, Test Cases, and Defect Report created as part of this project