Test Plan Document

**Project: SauceDemo Web Application**

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# 1. Introduction

The purpose of this Test Plan is to outline the testing strategy, scope, objectives, and resources required to validate the functionality, performance, and usability of the SauceDemo web application.

# 2. Objectives

- Verify that all functional requirements of SauceDemo are met.  
- Identify and fix defects before release.  
- Ensure the application is user-friendly, secure, and stable across browsers.  
- Validate end-to-end business workflows like login, product selection, cart operations, and checkout.

# 3. Scope

## In-Scope:

- Functional Testing: Login, Products, Cart, Checkout, Logout.  
- UI Testing: Menus, logo, footer links, responsiveness.  
- Validation of error messages and boundary conditions.  
- Cross-browser compatibility on Chrome, Firefox, Edge.  
- Security Testing for login and session handling.

## Out-of-Scope:

- Mobile app testing (only web version).  
- Performance and load testing beyond basic checks.  
- Integration with external payment systems.

# 4. Test Items

- Login Page  
- Product Inventory Page  
- Sorting and Filtering  
- Shopping Cart  
- Checkout (Step 1 & 2)  
- Order Confirmation  
- Side Menu & Logout  
- Footer links & Social Media icons

# 5. Features to be Tested

1. Login Functionality (valid, invalid, blank, locked user).  
2. Product Listing (display, sorting).  
3. Product Details validation.  
4. Cart Functionality (add/remove).  
5. Checkout Process.  
6. Logout & Reset App State.  
7. UI & Usability.  
8. Security Features.  
9. Error Handling.

# 6. Features Not to be Tested

- Third-party integrations (external payment gateway).  
- Email/SMS notifications.  
- Database testing.

# 7. Test Strategy

- Manual Testing for exploratory and UI testing.  
- Automation Testing (Selenium + TestNG/Cucumber) for regression.  
- Combination of positive and negative test cases.  
- Cross-browser testing.

# 8. Entry & Exit Criteria

## Entry Criteria:

- Functional requirements are finalized.  
- Application build is stable.  
- Test environment is set up.

## Exit Criteria:

- All planned test cases executed.  
- All critical & major defects fixed.  
- Test summary report prepared.

# 9. Test Environment

- Environment: QA/Test Environment  
- URL: https://www.saucedemo.com/  
- Browsers: Chrome, Firefox, Edge  
- OS: Windows 10/11, MacOS

# 10. Test Deliverables

- Test Plan Document  
- Test Cases Excel Sheet  
- Test Execution Report  
- Defect Report  
- Test Summary Report

# 11. Roles & Responsibilities

- Test Lead: Create test strategy, review test cases, track progress.  
- Test Engineer: Prepare test cases, execute, log defects.  
- Automation Engineer: Write Selenium scripts, maintain framework.

# 12. Risks & Mitigation

|  |  |  |
| --- | --- | --- |
| Risk | Impact | Mitigation |
| Application downtime | High | Coordinate with DevOps, plan buffer time |
| Unclear requirements | Medium | Review sessions with stakeholders |
| Browser compatibility issues | Medium | Test early on multiple browsers |

# 13. Schedule

|  |  |  |
| --- | --- | --- |
| Activity | Start Date | End Date |
| Test Case Preparation | 08-Sep-2025 | 12-Sep-2025 |
| Test Execution | 13-Sep-2025 | 17-Sep-2025 |
| Defect Fix & Retest | 18-Sep-2025 | 20-Sep-2025 |
| Test Closure | 21-Sep-2025 | 22-Sep-2025 |

# 14. Test Case Summary (Excel Reference)

A detailed Excel sheet with 30 test cases (Login, Product, Cart, Checkout, UI, Security, Errors) will be maintained separately. Each case will include:  
- Requirement ID  
- Test Case ID  
- Test Scenario  
- Test Steps  
- Test Data  
- Expected Result  
- Actual Result  
- Status (PASS/FAIL)