

# TEST PLAN – SauceDemo E-Commerce Web Application

**Version:** 1.0

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## 1. Introduction

This Test Plan defines the strategy, scope, approach, resources, tools, timeline, and deliverables for manual and automation testing of the **SauceDemo E-Commerce Web Application**.

The goal is to ensure the application functions correctly across all key features, including authentication, product browsing, cart operations, and checkout.

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## 2. Project Overview

**Application under Test:** <https://www.saucedemo.com>

**Platform:** Web (Desktop + Mobile responsive checks) **Test Types:**

- Manual Functional Testing
  - GUI / UI Testing
  - Regression Testing
  - Smoke Testing
  - Cross-browser Testing
  - Selenium Automation (Java)
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## **3. Objectives**

- Verify that all core user flows (login → product selection → checkout) work as expected.
  - Identify UI/UX inconsistencies and functional defects.
  - Validate stability after changes using regression tests.
  - Create automated scripts for repeated and critical flows.
  - Ensure a high-quality product experience.
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## **4. Scope of Testing**

### **4.1 In-Scope**

- Login / Logout
- Products list
- Product sorting
- Product detail pages
- Add/Remove from cart
- Cart page functionality
- Checkout process (all steps)
- Order confirmation
- UI validation
- Automation of: login, add to cart, checkout, sorting tests

## **4.2 Out-of-Scope**

- Backend payment gateway
  - Non-existing APIs (SauceDemo has no public API)
  - Performance testing
  - Security testing
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# **5. Test Approach**

## **5.1 Manual Testing**

Performed to validate:

- Functional correctness
- UI behavior
- Error messages
- Boundary and negative inputs
- Usability issues

## **5.2 Test Case Structure**

Each test case will contain:

- Test Case ID
- Test Scenario
- Preconditions
- Steps
- Expected Result
- Status (Pass/Fail)

### **5.3 Automation Testing (Selenium + Java)**

Automation will cover:

- Login
- Add to cart
- Remove from cart
- Sorting
- Checkout flow
- Smoke suite

Tools:

- Selenium WebDriver
  - TestNG / JUnit
  - Maven
  - Java
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## 6. Test Deliverables

- Test Plan
  - Test Scenarios (Google Sheets)
  - Test Cases (Google Sheets)
  - Bug Reports (Google Sheets)
  - Test Execution Report
  - Selenium Automation Test Suite (GitHub)
  - Final Portfolio Documentation
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## 7. Roles and Responsibilities

Role	Responsibility
QA Engineer	Create test cases, test scenarios, bug reporting, automation, documentation
Developer	Not applicable
Reviewer	Self-review

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## 8. Entry & Exit Criteria

### Entry Criteria

- Application is accessible
- Test environment is stable
- Test data prepared

- Test scenarios written

## Exit Criteria

- All planned test cases executed
  - No high-severity defects open
  - Automation smoke suite passed
  - Test reports prepared
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## 9. Risks & Mitigation

Risk	Impact	Mitigation
Application downtime	Testing blocked	Switch to automation or documentation work
No real API	Limited API testing	Use Postman mock API
UI changes	Test case updates required	Keep test cases modular

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## 10. Test Environment

**Browser versions:** Chrome latest, Firefox latest

**OS:** Windows 10 / macOS (optional)

**URL:** <https://www.saucedemo.com>

**Test Data:**

- Username: `standard_user`
  - `problem_user` for negative tests
  - Multiple cart combinations
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