# Sauce Demo Automation - Test Plan Document

Project Name: Sauce Demo Web Automation

Application URL: https://www.saucedemo.com/v1/

Tools Used: Selenium, TestNG, ExtentReports, Java, Maven, Eclipse

## Test Scenarios Overview

|  |  |  |
| --- | --- | --- |
| Sr | Scenario | Type |
| 1 | Login with valid credentials | Positive |
| 2 | Login with invalid credentials | Negative |
| 3 | Login with empty username & password | Negative |
| 4 | Add an item to the cart | Positive |
| 5 | View cart and validate product | Positive |
| 6 | Logout from the application | Positive |

## Scenario Descriptions + Test Cases

### Login with Valid Credentials

Description: Verify that a user can log in with the correct username and password.

Test Data: Username: standard\_user  
Password: secret\_sauce

Expected Result: User should be navigated to the inventory page.

### Login with Invalid Credentials

Description: Verify login fails with incorrect username/password.

Test Data: Username: invalid\_user  
Password: wrong\_pass

Expected Result: Error message should be displayed: "Username and password do not match any user".

### Login with Empty Credentials

Description: Verify login fails when no username or password is entered.

Test Data: Empty fields

Expected Result: Error message: "Username is required"

### Add Product to Cart

Description: Verify a logged-in user can add an item to cart.

Test Data: Product: Backpack

Expected Result: Cart shows “1” item added.

### View Cart Items

Description: After adding a product, user should see it in the cart.

Test Data: Product: Backpack

Expected Result: Product details appear in cart page.

### Logout Test

Description: Verify user can log out successfully.

Test Data: —

Expected Result: User returns to login page.

## Positive vs Negative Test Cases Summary

|  |  |
| --- | --- |
| Test Case | Type |
| Login with valid credentials | Positive |
| Add product to cart | Positive |
| View items in cart | Positive |
| Logout from app | Positive |
| Login with wrong credentials | Negative |
| Login with empty credentials | Negative |

## Environment Setup Instructions

### Software Requirements

|  |  |
| --- | --- |
| Tool | Version |
| Java | 17+ |
| Maven | 3.8+ |
| Selenium | 4.19+ |
| TestNG | 7.9+ |
| Extent Reports | 5.1+ |
| ChromeDriver | Latest |
| Eclipse IDE | 2023+ |

### Steps to Set Up Project

1. Install Java and set JAVA\_HOME
2. Install Maven
3. Download and install Eclipse IDE
4. Create Maven Project → Add dependencies in pom.xml
5. Add Selenium & Extent Report code files (as shared earlier)
6. Place ChromeDriver in your system path or configure in code
7. Run test using: Right-click test file → Run As → TestNG Test
8. View report at: test-output/ExtentReport.html