

Introduction

This report summarizes the testing activities performed for automating the functional testing of the SauceDemo E-Commerce Application using Selenium with Java. The website allows users to log in, browse products, add them to cart, and complete checkout. The goal of this plan is to ensure that the UI workflows function correctly under different scenarios.

Test Environment:

- URL: <https://www.google.com/search?q=https://www.saucedemo.com/>
- Browser: Chrome, Firefox, Edge
- Platform: Windows 10, macOS Ventura
- Devices: Desktop, Tablet

Test Case Execution Status

Test Scenario ID	Test Scenario	Number of Test cases
TS_001	Validate the login page	5
TS_002	Validate the search bar	7
TS_003	Validate the cart	5
TS_004	Validate the checkout process	8
TS_005	Validate the navigation	3
TS_006	Validate the order	3
TS_007	Validate the UI responsiveness	4
TS_008	Validate the API response	3
	Total =	38

Defect Status

Total Test Cases	Passed	Failed	Major Bug
1	5	0	1
2	5	2	0
3	4	1	0
4	7	1	0
5	2	1	0
6	3	0	0
7	4	0	0
8	2	1	0
Passed Test Cases = 32		Failed Test Cases = 6	

Recommendations

1. **Bug Resolution:** Prioritize resolving the critical defect in the order processing module, as it may impact user trust and transaction accuracy.
2. **Regression Testing:** After bug fixes, a full regression cycle is recommended to ensure system stability.
3. **UI Review:** Conduct a UI audit across different screen resolutions to standardize the layout and spacing for a better user experience.
4. **Enhance Filtering Mechanism:** Improve filtering capabilities in the product and customer lists for ease of access.

Suggestions

- **Accessibility Testing:** Implement accessibility checks to ensure compliance with WCAG 2.1 standards.
- **Performance Testing:** Evaluate load times and responsiveness under simulated concurrent admin user activity.
- **Mobile Responsiveness:** Although the platform is mainly for desktop, optimizing some views for tablet use can improve administrator mobility.
- **Test Automation:** Automate repetitive tests (like login, dashboard load, product add/edit) using Selenium or Playwright to save manual effort over time.