

Test Summary Report

Project: SauceDemo (Swag Labs) E-commerce Website

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Testing Period: 3 Days

Test Type: Functional, UI, & API Testing

1.0 Executive Summary

A comprehensive test cycle was conducted on the SauceDemo application to validate its core e-commerce functionalities. Testing covered the complete user journey from login to checkout, including backend API verification.

While basic workflows are functional, the assessment reveals significant stability issues, particularly in cart management and session handling. 8 defects were identified, of which 4 are High Severity. It is recommended that these critical issues be addressed before a production release.

2.0 Test Metrics

A total of **33 test cases** were designed and executed for the SauceDemo (Swag Labs) web application, covering key functional areas such as login, product display, sorting, cart management, checkout, logout, and API validation.

Out of these **33 test cases, 25 passed successfully and 8 failed**, giving an overall **pass rate of approximately 75.7%**.

Defects were categorized based on severity as follows: **4 High severity defects, 4 Medium severity defects, and no Low severity defects.**

High-severity issues primarily impacted cart behavior, checkout validation, and session handling. Medium-severity issues were mostly related to UI inconsistencies and navigation flow.

3.0 Defect Analysis

Critical defects were concentrated in the Cart and Checkout modules, indicating a risk to the primary transaction workflow.

Key Defects Identified:

User session and cart data are not cleared upon logout. **High**

Invalid product ID creates a broken cart entry, resulting in an empty cart page. **High**

Cart data persists incorrectly between different user sessions. **High**

The checkout process allows progression with an empty cart. **High**

Filter dropdown fails to open when the arrow icon is clicked. **Medium**

No user interface to modify product quantity in the cart. **High**

4.0 Quality Assessment

Area	Status	Remarks
Functionality	Moderate Risk	Core features operate, but critical logic flaws exist in key workflows.
Usability	Acceptable	The UI is generally intuitive, though navigation bugs impact the user experience.
Stability	At Risk	Session and cart data inconsistencies pose a high risk to data integrity.
API Reliability	Good	Endpoints respond correctly to valid requests but lack robust input validation.

5.0 Conclusions & Recommendations

Conclusion: The SauceDemo application successfully demonstrates basic e-commerce functionality. However, the presence of high-severity defects in core modules like Cart, Checkout, and Session Management presents a significant risk to user data integrity and the overall transaction process.

Recommendations:

1. Immediate Action (Priority 1): Resolve all High-severity defects, specifically:
 - Fix session persistence after logout (B8_TC_LOGOUT_05).
 - Rectify cart corruption from invalid product IDs (B4_TC_CART_07).
 - Prevent checkout with an empty cart (B6_TC_CHECKOUT_02).
2. Secondary Action (Priority 2): Address medium-severity usability issues, such as the filter dropdown and cart quantity management, to improve the user experience.
3. Enhancement: Strengthen backend API validation to handle invalid requests more gracefully.

A follow-up test cycle is recommended after these fixes are implemented.

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