Test Summary Report

Project: Swag Labs E-Commerce

Version 1.0

Submitted To:

Digital Egypt Pioneers Initiative (DEPI)

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1   Executive Summary

The testing life cycle for the **Swag Labs** web application has been completed. The scope included comprehensive **Manual Testing** for all user stories and **Automation Testing** for functional verification using Selenium and TestNG.

    Conclusion: While the automation suite for the "Happy Path" passed successfully, Manual Testing revealed significant issues with input validation and edge cases. Due to the high number of reported bugs (**14 Defects**), including critical blockers, the application is currently **unstable** for public release.

2   Scope of Testing

The testing activities covered the following core modules:

- **Login Page:** Authentication scenarios (Valid, Invalid, Locked-out).

- **Products Page:** Browsing, Sorting, and Adding items to cart.

- **Cart Page:** Verifying items and removing them.

- **Checkout Information:** Input validation for user details.

- **Checkout Overview:** Final review of items and total price.

- **Checkout Complete:** Order confirmation and "Thank You" page verification.

3   Manual Execution Metrics

This section summarizes the results of the manual test cases execution.

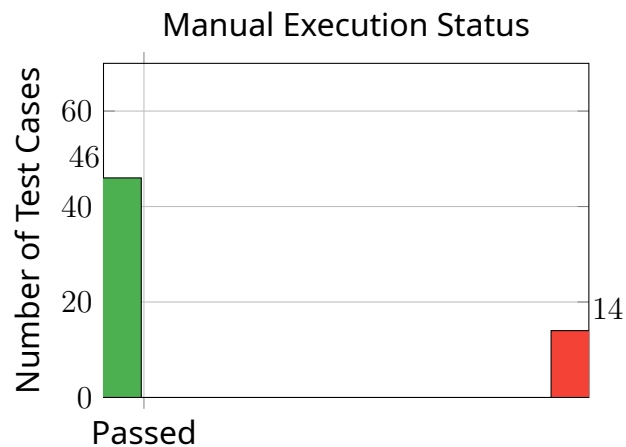| Metric	Value
Total Planned Test Cases	60
Total Executed Test Cases	60
Coverage Percentage	100%
Passed	**46** (77%)
Failed	**14** (23%)
Total Reported Bugs	14

Table 1: Manual Testing Statistics

Figure 1: Manual Testing Overview: 46 Passed vs 14 Failed

4 Automation Execution Metrics

An automated suite was developed using a **Hybrid Framework** to verify key functional flows across all pages (Login to Checkout Complete).

Metric	Value
Total Scripts Planned	32
Total Scripts Executed	32
Automation Coverage	100%
Passed	**32** (100%)
Failed	**0** (0%)

Table 2: Automation Testing Statistics

Remarks:

- The automation suite successfully verified the end-to-end flow including the **Checkout Complete** page.

- Zero failures in automation indicate that the "Happy Path" logic is intact.

5 Defect Summary & Critical Issues

A total of **14 defects** were reported during this cycle. The distribution by severity is visualized below.
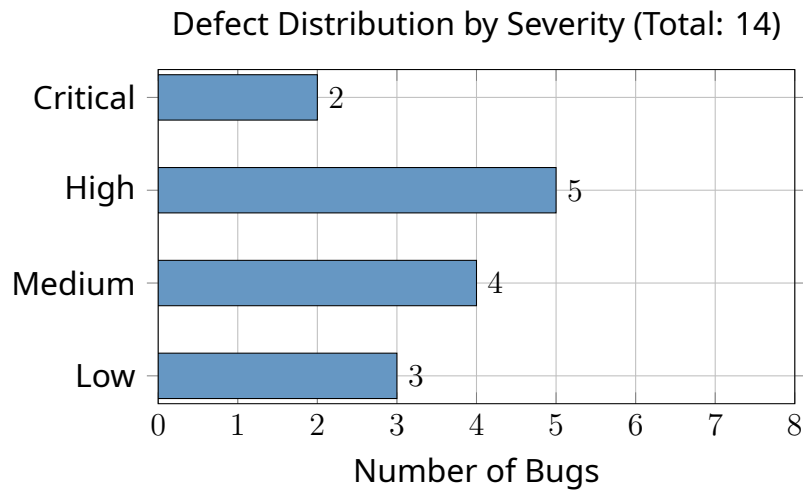
Defect Distribution by Severity (Total: 14)

Figure 2: Defect Severity Analysis

Top Critical/Blocker Issues:

[Critical] BUG-001: Empty Cart Checkout
> The system allows users to proceed to the "Checkout Information" page even when the cart is empty. This bypasses the core business logic.

[High] BUG-002: Input Validation Failure
> The "First Name" and "Last Name" fields accept invalid data types (numeric values and special characters) without error messages.

6 Recommendations

Based on the high failure rate in manual testing, the QA team recommends:

1. **Blocker Fixes:** Immediate attention is required for the empty cart checkout and data validation issues.

2. **Code Freeze:** No new features should be added until the 14 reported bugs are resolved.

3. **Re-Testing:** A full round of manual re-testing is required after the development team releases the hotfixes.

7 Conclusion & Sign-off

Although automation results are positive for standard flows, the manual testing phase exposed critical vulnerabilities.