Test Summary Report

Project: Swag Labs E-Commerce

Version 1.0

Submitted To:

Digital Egypt Pioneers Initiative (DEPI)

Team Members:

Farah Magdy
Esraa Sameh
Aml Ahmed
Ahmed Akram

November 21, 2025

Contents

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 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

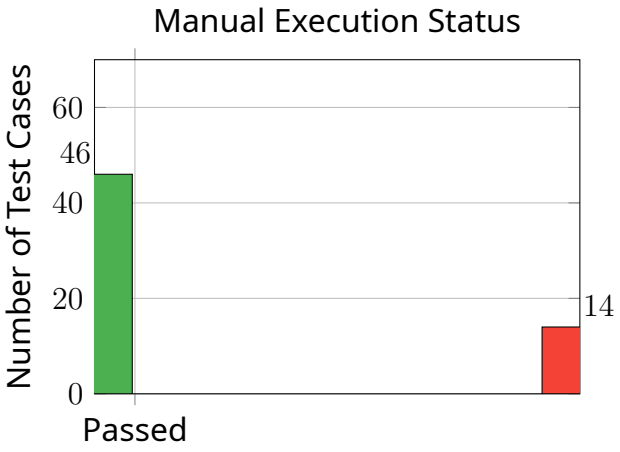

Figure 1: Manual Testing Overview: 46 Passed vs 14 Failed

Remarks:

- Testing covered positive and negative scenarios across Chrome and Edge.
- A failure rate of 23% indicates a need for significant code fixes.

3 Automation Execution Metrics

An automated suite was developed using a **Hybrid Framework** to verify key functional flows.

Metric	Value
Total Scripts Planned	23
Total Scripts Executed	23
Automation Coverage	100%
Passed	**23** (100%)
Failed	**0** (0%)

Table 2: Automation Testing Statistics

Remarks:

- The automation suite focused on verifying the stability of the main user journeys (Standard User Flow).
- Zero failures in automation indicate that the ”Happy Path” is intact, but edge cases (caught manually) are broken.

4 Defect Summary & Critical Issues

A total of **14 defects** were reported during this cycle. The distribution by severity is visualized below.

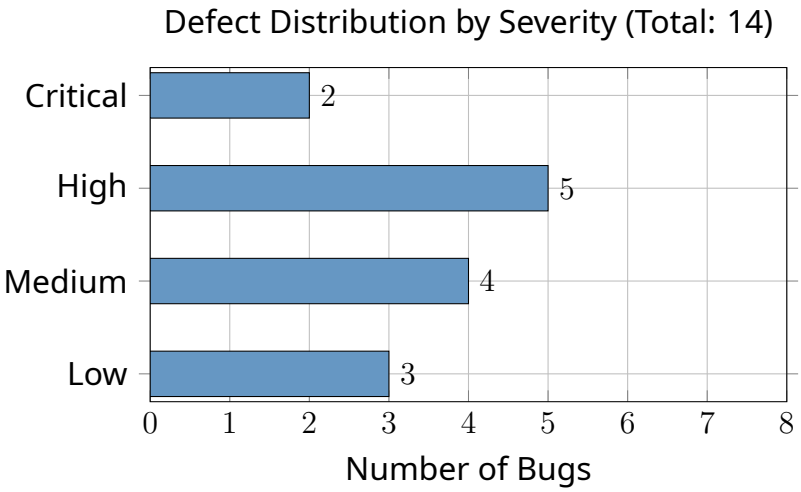

Figure 2: Defect Severity Analysis

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.

5 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.

6 Conclusion & Sign-off

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

Decision: The build is **REJECTED**. It is not suitable for production release until Critical and High severity defects are resolved.