

Software Test Report (STR) – SwagLabs Project v1.0

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Release Status: REJECTED (No-Go)

1. Executive Summary

This report summarizes the testing activities performed on the SwagLabs e-commerce platform. The testing phase utilized a **Hybrid Approach**, combining comprehensive Manual Testing with an Automation Framework built using **Python**, **Playwright**, and the **Page Object Model (POM)**. A total of **5 defects** were identified, including one **Critical Blocker** in the checkout process. Due to the severity of this issue, the current build is **not recommended for release** until a fix is implemented and verified.

2. Scope & Methodology

- **Total Test Cases:** 20
 - **Testing Infrastructure:**
 - **Manual (13 Cases):** Functional, UI/UX, and Compatibility testing (detailed in the STD).
 - **Automation (7 Cases):** Critical Sanity and E2E flows (detailed in the **Tests** directory).
 - **Test Environment:** Windows 11, Chromium (Headless/Headed modes via Playwright).
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3. Test Execution Metrics

Test Category	Total Cases	Passed	Failed	Success Rate
Manual Testing	13	9	4	69%
Automation Testing	7	6	1	85%
Overall Summary	20	15	5	75%

4. Defect Distribution

Five defects were logged in the Bug Report, categorized by severity. The most significant finding was a functional failure during the checkout phase for specific user profiles.

- **1 Critical (Blocker):** Functional failure in the "Finish" action (detected in TC-20).
- **4 Medium/Low:** UI inconsistencies and minor validation errors discovered during manual cycles.

Bug ID	Description	Source	Severity
BUG-01	Checkout Finish button non-responsive (Error User)	Automation (TC-20)	Critical
BUG-02	Product image mismatch in specific categories	Manual	Medium
BUG-03	Shopping cart UI alignment issue on mobile view	Manual	Low
BUG-04	Missing validation for Zip/Postal code field	Manual	Medium
BUG-05	Incorrect error message string during login failure	Manual	Low

5. Automation Insights & Results

The automation suite provided high-confidence results regarding the system's core stability:

- **Stability:** 6/7 core scenarios passed, confirming that Login, Navigation, and Cart management are stable for standard users.
 - **Defect Detection:** The test `test_tc20_error_user_finish_action_failure` successfully caught the checkout bug. The framework's **Assertion** failed as the `complete-header` element did not appear within the 5000ms timeout, proving a functional break in the application logic.
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6. Final Recommendation

The platform demonstrates good stability in its primary flows; however, the **Critical Blocker** in the checkout process represents a high risk to business continuity. **Next Steps:**

1. Immediate developer attention to the **Finish button logic** for the `error_user` profile.
 2. Full **Regression Cycle** (Manual + Automated) once a fix is deployed.
 3. Release approval is pending the successful verification of all 5 reported defects.
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Appendices:

- **Automation Report:** `report.html` (Generated via pytest-html).
- **Test Documentation:** Lean STP, STD (Excel), and Detailed Bug Report.