

Test Strategy for Swag Labs

Group: 6 | DEPI_CAI2_SWD6_S7

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1. Introduction

This document outlines the **test strategy** for the **Swag Labs** website (<https://www.saucedemo.com/>). The goal is to ensure the platform meets quality standards by validating functionality, performance, security, automation, and mobile app compatibility. This strategy defines the testing approach, types, levels, and the checklist for all user stories.

2. Test Types

2.1 Manual Testing

- **Component Testing:** Verify individual components for correct behavior.
- **Integration Testing:** Ensure that components work together as expected.
- **System Testing:** Validate the complete, integrated system functionality.
- **Component Integration Testing:** Check the integration points between specific components.
- **System Integration Testing:** Confirm end-to-end interactions across the entire system.

2.2 Performance Testing

- Measure the responsiveness and stability of the website under various load conditions.
- Evaluate page load times and simultaneous user actions to identify bottlenecks.

2.3 Security Testing

- Identify vulnerabilities and assess the application's ability to protect data.
- Test secure authentication, authorization mechanisms, and data integrity.

2.4 Automation Testing

- Develop and execute automated test scripts for regression and high-priority test cases.
- Integrate automation with Continuous Integration (CI) systems to provide rapid feedback on code changes.

2.5 Mobile App Testing

- Verify that the mobile application (if applicable) mirrors the web experience.
- Test usability, responsiveness, and layout across various devices and screen sizes.
- Ensure mobile-specific features are functioning as intended.

2.6 API Testing:

Validate requests and responses for all endpoints using Postman.

3. Test Levels

- **Test Plan:** A high-level document defining the testing approach, objectives, resources, and schedule.

Attachment: https://drive.google.com/file/d/1QKw4BKDpw08SJP80xPUabb1trc_DED6I/view?usp=sharing

- **Test Suites:** Groups of related test cases organized by functionality or user story.
- **Test Cases:** Detailed instructions outlining the steps to execute each test and the expected results.
- **Bug Reporting:** Bugs will be documented with steps, severity, priority, and screenshots.
- **Test Summary:** A final report summarizing the test outcomes, pass/fail status, and identified defects.

4. User Story Checklist

Below is the checklist for all user stories to be tested. Each user story is listed by name with an associated checkbox for tracking testing progress.

User Story	Tested (✓/X)	Note & Date
Login	<input type="checkbox"/>	
Homepage (Products/All Items)	<input type="checkbox"/>	
Sidebar	<input type="checkbox"/>	
Product Detail Page	<input type="checkbox"/>	
Shopping Cart Page	<input type="checkbox"/>	
Checkout Process	<input type="checkbox"/>	
About Page & Navbar Elements	<input type="checkbox"/>	