# Software Testing Plan

## 1. Testing Scope

The testing scope includes the following features and pages of the Swag Labs website:

• Login Page: Verify login functionality with different user types.

• Product Page: Ensure product listings display correctly.

• Cart Page: Test adding/removing items from the cart.

• Checkout Page: Verify the checkout process and payment workflow.

• API Endpoints: Validate API responses for login, product retrieval, and checkout.

## 2. Assign Testing Roles

• Manual Testing: Tester A – Responsible for UI and functional testing.

• API Testing: Tester B – Responsible for API response validation.

• Automation Testing: Tester C – Responsible for writing and executing automated test scripts.

## 3. Identified Risks

Potential challenges that could arise during testing include:

• Browser Compatibility: The website may behave differently on various browsers.

• Performance Issues: Some user accounts may experience delays (e.g., performance\_glitch\_user).

• Data Consistency: Ensuring correct product details and prices across sessions.

• API Response Variability: API responses must remain consistent across multiple requests.

## 4. Key Performance Indicators (KPIs)

The following metrics will be used to measure the success of the testing process:

• Bug Detection Rate: Percentage of test cases that resulted in defect identification.

• Test Coverage Percentage: The percentage of total functionalities tested.

• Response Time for API Requests: The time taken for API responses to ensure optimal performance.

• Automation Coverage: The percentage of test cases automated to improve efficiency.