

# **Intern Quality Assurance Engineer**

## **Technical Assessment**

**Test Plan Creation**

**Manuri Karunaratna**

## **1. Test Plan Identifier**

- Test Plan Name - E-Commerce Website Testing Plan
- Version - 7.0
- Version Date - September 17, 2024
- Author – Perera Danawatta, QA Lead
- Revision History - None

## **2. Introduction**

The purpose of this test plan is to validate the functionalities of the e-commerce website. The website provides users with multiple payment methods, shipping options, address management, order summary and review, and order confirmation/receipt generation. This test plan ensures all features work as expected, provide a positive user experience, and are free of critical defects.

## **3. Test Items**

The primary features to be tested include

- Payment methods: Credit/Debit cards, PayPal, and Bank Transfers.
- Shipping options: Standard, Express, and International.
- Address management: Adding, updating, and deleting addresses.
- Order summary and review before finalizing the purchase.
- Order confirmation and receipt generation post-purchase.

## **4. Features to Be Tested**

### **1. Multiple Payment Methods**

- Test successful and failed transactions for each payment method.
- Test edge cases (e.g., invalid card details, insufficient balance).
- Ensure payment gateway integration works properly.

### **2. Shipping Options and Address Management**

- Verify users can add, update, and delete shipping addresses.
- Validate the selection of shipping options (Standard, Express).
- Ensure correct shipping charges are applied based on the user's location and selected shipping method.

### 3. Order Summary and Review

- Verify the accuracy of itemized order details (product name, quantity, price, shipping).
- Check the display of selected payment and shipping methods.
- Confirm users can edit their cart or shipping options before finalizing the purchase.

### 4. Order Confirmation and Receipt Generation

- Confirm that a confirmation page is shown after successful payment.
- Verify the generation and email of the order receipt.
- Test scenarios for receipt generation failures and retry mechanisms.

### 5. Features Not to Be Tested

Non-production Shipping Methods - Any shipping method not included in this release.

### 6. Approach

Test Strategy - Manual testing will be performed for critical paths, and automation scripts will cover regression testing.

Tools - Selenium for automation, JIRA for bug tracking.

Metrics - Defect density, test coverage, and pass/fail ratios will be tracked.

Regression Testing - Regression will be triggered after every significant code change, focusing on critical functionalities (payment, shipping).

### 7. Item Pass/Fail Criteria

- A test case is considered passed if all expected results match the actual results with no defects.
- A test case is failed if any deviation is found between expected and actual outcomes.

### 8. Suspension Criteria and Resumption Requirements

- Testing will be suspended if critical defects (e.g. website crashes during checkout) are discovered and cannot be bypassed.

### 9. Test Deliverables

- Test cases document.
- Test logs and reports.
- Defect reports.
- Test summary report at the end of testing cycles.

## **10. Environmental Needs**

- Test Environment - Windows, Mac, and Mobile (iOS/Android) environments with different browsers (Chrome, Firefox, Safari).
- Tools - Browsers for testing, API testing tools for payment gateways.

## **11. Responsibilities**

- QA Lead - Perera Danawatta, responsible for test case design and overall test execution.
- Developers - Provide test builds.
- Testers - Execute tests and report defects.

## **12. Schedule**

- Test Case Design - Sept 20 - Sept 25, 2024
- Test Execution - Sept 26 - Oct 10, 2024
- Bug Fixing and Re-testing - Oct 11 - Oct 15, 2024
- Final Sign-off - Oct 16, 2024

## **13. Approvals**

- QA Lead - Perera Danawatta
- Project Manager – W.E Silva