

WireApps - Intern Quality Assurance Engineer

Technical Assessment

4. Test Plan Creation

Test Plan for E-Commerce Website

Project Name: E-Commerce Website

Date: August 28, 2024

Prepared By: [Erandi Weerasooriya]

Approval: []

1. Introduction

The purpose of this test plan is to outline the strategy and approach for testing the new e-commerce website. The website includes features for multiple payment methods, shipping options and address management, order summary and review, and order confirmation and receipt generation.

2. Objectives

- Ensure all functionalities work as intended.
- Validate user interactions for a smooth shopping experience.
- Verify payment and shipping processes.
- Confirm order processing and receipt generation accuracy.

3. Scope

In Scope:

- Multiple payment methods
- Shipping options and address management
- Order summary and review
- Order confirmation and receipt generation

Out of Scope:

- Backend system integration
- Non-functional testing (e.g., performance, load)

4. Testing Strategy

1. Functional Testing: Verify each feature works according to requirements.
2. Usability Testing: Ensure the website is user-friendly.
3. Compatibility Testing: Check website functionality across different browsers and devices.
4. Security Testing: Validate the security of payment processing and user data.

5. Test Cases

5.1. Multiple Payment Methods

ID	Test Description	Expected Result	Status
TC_001	Verify Credit Card payment option is available and functional	Credit card payment option should be selectable and functional	
TC_002	Verify PayPal payment option is available and functional	PayPal payment option should be selectable and functional	
TC_003	Verify payment with expired credit card fails properly	Payment should fail with an appropriate error message	
TC_004	Verify payment with incorrect details fails properly	Payment should fail with an appropriate error message	

5.2. Shipping Options and Address Management

ID	Test Description	Expected Result	Status
TC_005	Verify user can enter a new shipping address	New address should be saved and selectable	
TC_006	Verify shipping options are displayed based on address	Shipping options should reflect the entered address	
TC_007	Verify address update functionality	Updated address should be saved and displayed correctly	

5.3. Order Summary and Review

ID	Test Description	Expected Result	Status
TC_009	Verify order summary displays correct items, quantities, and prices	Order summary should display accurate details of the items	
TC_010	Verify order summary updates after changes in cart	Order summary should reflect changes made in the cart	
TC_011	Verify user can review and edit order before finalizing	User should be able to review and modify order details before checkout	

5.4. Order Confirmation and Receipt Generation

ID	Test Description	Expected Result	Status
TC_012	Verify order confirmation page displays correct order details	Confirmation page should display accurate order details	
TC_013	Verify receipt is generated and includes all required information	Receipt should include order details, payment method, and shipping information	
TC_014	Verify receipt is sent to user's email	Receipt email should be received with correct details	
TC_015	Verify ability to view order history and download receipts	Order history should be accessible, and receipts should be downloadable	

6. Test Environment

- Browsers: Chrome, Firefox, Safari, Edge
- Devices: Desktop, Tablet, Mobile (iOS and Android)

7. Test Data

- Credit Card Numbers: Test credit card numbers (e.g., for Visa, MasterCard) provided by payment gateway sandbox
- Shipping Addresses: Valid and invalid addresses for different shipping options
- Order Items: Sample products with various quantities and prices

8. Schedule

Phase	Start Date	End Date	Responsible Team
Test Planning			
Functional Testing			
Usability Testing			
Compatibility Testing			
Security Testing			
Final Review			

9. Resources

- Testers
- Tools: Selenium, JIRA, Postman
- Documentation: Requirements Specification, User Stories

10. Risk Management

- Risk: Stolen credit card information
 - Mitigation: Improved security actions
- Risk: Currency exchange risk
 - Mitigation: Always use one currency type

11. Approval

- Prepared By: []
- Approved By: []
- Date: []