WireApps

Intern Quality Assurance Engineer

Technical Assessment

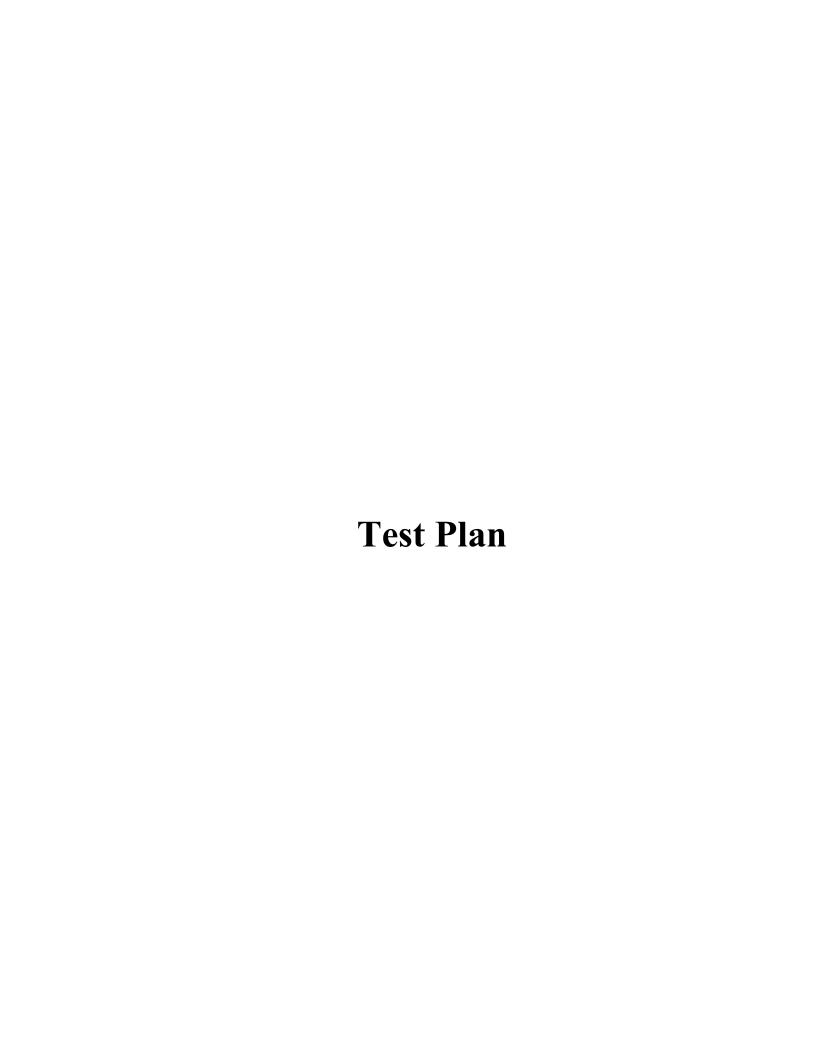
Test Plan Creation

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4. Test Plan Creation

Create a test plan for a new e-commerce web site which has following features:

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



Test Plan for New E-Commerce Website

1. Introduction

This testing plan is for the new e-commerce website, which provides customers with

multiple payment methods, shipping options, order summary and review, and order confirmation

and receipt generation. The aim of this testing is to ensure that the website meets all functional and

non-functional requirements and is free of critical defects.

2. Test Items

Web Application: E-Commerce Website, version 1.0

Build Number: 001

3. Features to be Tested

1. Multiple Payment Methods

- Integration and functionality of different payment gateways (credit card, debit card, PayPal)
- Handling of payment errors and timeouts
- Secure processing of payment information

2. Shipping Options and Address Management

- Adding, editing, and deleting shipping addresses
- Selection of various shipping options
- Validation of shipping addresses and calculation of shipping costs

3. Order Summary and Review

- Display of correct product details, pricing, taxes, and total cost
- Ability to modify order items, quantities, or addresses before finalizing the purchase
- Proper application of discounts, promotions, or coupon codes

4. Order Confirmation and Receipt Generation

- Generation of order confirmation page and receipt
- Email/SMS notification to the customer with order details
- Availability of the order summary and receipt in the customer account dashboard

4. Test Environment

• Operating Systems: Windows 10, Windows 11, macOS

• Browsers: Google Chrome, Firefox, Safari, Microsoft Edge

• Hardware: Intel i5 processor, 8GB RAM

• Server: AWS

5. Test Schedule

• Test Planning: 10th September 2024 - 15th September 2024

• Test Case Development: 16th September 2024 - 30th September 2024

Test Execution: 1st October 2024 - 15th October 2024

• Test Closure: 16th October 2024

6. Test Deliverables

- Test Cases Document
- Test Scripts
- Test Execution Report
- Defect Reports
- Performance Test Report
- Usability and Accessibility Test Report
- Security Test Report

7. Test Approach

• Functional Testing

To validate each feature (manual testing).

• Integration Testing

To test the integration between different modules like payment gateway, shipping options, and order management (manual and automation testing).

• Performance Testing

To ensure the website can handle a large number of users and transactions simultaneously (automation testing).

Security Testing

To check for vulnerabilities in payment processing, user data management, and secure communications (manual and automation testing).

Usability and Accessibility Testing

To ensure that the website is user-friendly and accessible to all users, including those with disabilities.

Responsive Testing

To confirm the website works properly on different devices (desktop, tablet, mobile).

8. Defect Management

Bug Reporting Process:

All defects will be reported in the following details:

- Description of the defect
- Steps to reproduce
- Severity and Priority
- Screenshots, logs, or videos

Defect Triage Meeting: Held weekly to review and prioritize reported defects.

9. Risk Management

Potential Risks

- Delays in environment setup affecting the testing schedule.
- Integration issues with external payment gateways.
- Possible performance issues under high load conditions.
- Security vulnerabilities in handling sensitive user data.

Mitigation Strategies

- Set up the test environment early and verify it is fully functional.
- Conduct integration tests early, especially for third-party components.
- Perform load and stress testing under simulated real-world conditions.
- Employ security testing tools and manual reviews to identify and resolve vulnerabilities.

10.Exit Criteria

- All identified defects must be fixed or accepted by the stakeholders.
- All test cases must be executed with a pass rate of at least 95%.
- No critical or high-severity defects should remain open.
- All test deliverables (test cases, reports) must be completed and submitted.
- Performance metrics should meet or exceed the defined thresholds.
- The website must pass security compliance checks.