

E-COMMERCE WEBSITE

Test Plan

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1 Introduction

This document describes the test plan for the e-commerce website. We will address the feature like multiple payment methods, shipping options, address management, order summary, and order confirmation. This Testing aims to confirm that the website performs as planned and offers a consistent user experience across all of these components.

1.1 Scope

The e-commerce Test Plan defines the unit, integration, system, regression, and client acceptance testing approach. The test scope includes the following:

- Testing of all functional, performance, security, and use case requirements as specified in the Use Case document.
- Quality requirements and fit metrics for the website.
- End-to-end testing and testing of interfaces with all systems that interact with the website.

1.2 Objective

The objective is to confirm the website's functionality in terms of its various features.

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

1.3 Roles and Responsibilities

The following functions are relevant to the testing phase of the e-commerce website:

1.3.1 Developer

The Developer is responsible for the design, development, and maintenance of the e-commerce website. Responsibilities include:

- (a) Develop the system/application
- (b) Develop Use cases and requirements in collaboration with the Adopters
- (c) Support user acceptance testing

1.3.2 Adopter

The website must be formally adopted, tested, validated, and applied by the adopter. Among the duties are:

- (a) Examining and commenting on the use cases and specifications that the developer has created
- (b) Examining test scripts and participating in their creation and implementation
- (c) Identifying testing scenarios, writing and running test scripts, reporting test findings, and carrying out thorough user acceptability testing, including regression and end-to-end testing

1.3.3 Testing Process Management Team

The team in charge of managing the testing process is the Testing Process Management Team, which is made up of project managers, leads in quality assurance, and other relevant stakeholders. Among the duties are:

- (a) Monitor and manage testing integrity and Support testing activities
- (b) coordinating the work of several teams involved in testing and making sure that every component of the website is tested thoroughly

2 System Testing

2.1 Features to Be Tested

2.1.1 Multiple Payment Methods

- Payment using a credit or debit card
- PayPal or more gateways for payments
- Order payment in cash (COD)

2.1.2 Shipping Options and Address Management

- Various shipping options (express, standard, etc.)
- Shipping address additions, changes, and deletions
- Verification of the address fields
- Applying shipping charges based on selected option

2.1.3 Order Summary and Review

- Accurate presenting of chosen goods, amounts, and costs
- Discount calculations
- Shipping costs displayed according to the chosen choice
- Changing products in the cart prior to order confirmation

2.1.4 Order Confirmation and Receipt Generation

- Order confirmation message displayed
- Producing an electronic receipt that includes the order summary
- Sending an email confirming the order and the payment information
- Possibility of downloading the receipt

2.2 Test Approach

2.2.1 Unit Testing

Before integrating them with other features, unit testing involves testing individual website components like payment methods, shipping options, and order summary sections.

2.2.2 Iteration/Regression Testing

This type of testing ensures that after updates or bug fixes, the website's existing features (like checkout, payment, and order confirmation) continue to function properly without any disruptions or regressions.

2.2.3 Usability Testing

Usability testing makes sure that the website is simple to use and that users can easily do tasks like choosing products, updating delivery addresses, and securely completing payments. It focuses on the overall user experience and interface design.

2.2.4 Performance Testing

Check for errors in the functionality of critical operations such as checkout, payment processing, and receipt generation, particularly when there is a high volume of concurrent orders being placed by users.

2.2.5 Compatibility Testing

Test the website on several platforms (desktop, mobile, tablet) and browsers (Chrome, Firefox, Safari, Edge).

3 Test Deliverables

3.1 Deliverables Matrix

The list of process-driven artifacts that need to be created during the e-commerce website's testing lifecycle is provided below. Test validation requires the provision of specific deliverables. To uphold the general goals and guarantee the website's quality, additional deliverables might be added. Throughout the development cycle, this matrix needs to be updated frequently and documented in the project-specific Test Plan.

Deliverable
Documents
Test Approach
→ Test Plan
→ Test Schedule
→ Test Specifications
Test Case / Bug Write-Ups
Test Cases / Results
Test Coverage Reports
Bug reporting
Reports
Test results report
Test Final Report

4 Environment Needs

4.1 Testing Tools

All defects and issues found during the testing of the e-commerce website will be tracked and recorded using JIRA. Maintaining the tracking tool database and making sure that all defects are appropriately recorded, ranked, and tracked from discovery to resolution are the responsibilities of the test lead. Additionally, this application will be utilized to report to the project team and track the status of testing activities.

4.2 Test Environment

4.2.1 Devices

- Desktop
- Mobile
- Tablet

4.2.2 Browsers

- Chrome
- Firefox
- Safari
- Edge

4.2.3 Operating Systems

- Windows
- macOS
- Android
- iOS