

Test Plan

Test Plan for a New E-commerce Website.

1) Introduction

This test plan explains how we will test a new online shopping website. The website has features like different payment methods, shipping options, address management, order review, confirmation, and receipt generation. We will use both manual and automated testing to make sure everything works well.

1.1) Scope

1.1.1) In Scope

The following features will be tested:

- Different payment methods (like Credit Cards, Debit Cards, and PayPal)
- Shipping options (Standard, Express) and address management
- Order summary and review
- Order confirmation and receipt generation

1.1.2) Out of Scope

The following areas are not included in the testing:

- Integration with third-party services
- Security testing
- Mobile versions of the website

1.2) Quality Objective

The main goals of testing are:

- Make sure the website meets all functional and non-functional requirements.
- Ensure a smooth user experience, especially when users place orders, make payments, and manage their profiles.
- Find and fix any issues before the website goes live.
- Verify that the website meets the client's quality standards.

1.3) Roles and Responsibilities

- **QA Analyst:** Will write test cases, run the tests, and report bugs.
- **Test Manager:** Will oversee the testing, manage the team, and make sure we stick to the schedule.
- **Developers:** Will fix any bugs and ensure the website functions well.
- **Configuration Manager:** Will handle the version control and setup of the test environment.
- **Installation Team:** Will install and deploy the software.

2) Test Methodology

2.1) Overview

We will use the **Agile** method because it allows us to test new features or changes quickly and efficiently.

2.2) Test Levels

We will test the website at different stages:

- **Unit Testing:** Developers will test small pieces of the website, like individual functions.
- **Integration Testing:** We will check if the different parts of the website work together properly.
- **System Testing:** We will test the entire website, from login to order confirmation.
- **User Acceptance Testing (UAT):** We will ensure the website is user-friendly and works well for customers.

2.3) Bug Triage

Bugs will be classified based on their urgency:

- **High Priority:** Payment or order processing problems.
- **Medium Priority:** Issues that affect the experience but do not block important functions.
- **Low Priority:** Minor visual or usability issues.

2.4) Suspension Criteria and Resumption Requirements

- **When Testing Stops:** If payments or order confirmation fail, or if a critical bug prevents further testing.
- **When Testing Resumes:** Once critical issues are fixed and the website can continue with key functions.

2.5) Test Completeness

Testing will be finished when:

- All important user tasks are tested.
- Every test case has been run.
- Critical and high-priority bugs are resolved.

3) Test Deliverables

The following documents will be produced:

- Test Plan (this document)
- Test Cases
- Bug Reports
- Traceability Matrix
- Testing Metrics
- Customer Sign-Off after UAT

4) Resource & Environment Needs

4.1) Testing Tools

- **Requirement Tracking Tool:** JIRA to track requirements and tasks.
- **Bug Tracking Tool:** Bugzilla to log and manage bugs.
- **Automation Tool:** Selenium to automate important test cases.

4.2) Test Environment

- **Hardware:** Computers with 8GB RAM, Core i5 processor or higher.
- **Software:**
 - Browsers like Chrome, Firefox, and Safari for cross-browser testing.
 - Windows 10 or later, macOS.
 - Sandbox accounts to test payment methods.