**Test Plan (opencart.com)**

Table of Contents

1. Introduction & Objective
   1. Purpose
   2. Project Overview
2. Scope
   1. In-Scope
   2. Out of Scope
3. Test Strategy
   1. Testing Levels
   2. Types of Testing
4. Test Deliverables
5. Test Environment
   1. Hardware
   2. Software
   3. Test Data
6. Test Schedule
   1. Activity Timeline
7. Risk Analysis and Mitigation
   1. Potential Risks
   2. Mitigation Measures
8. Entry and Exit Criteria
9. Approvals

# Introduction & Objective

**1.1 Purpose:** The purpose of this test plan is to define the methodology, scope, resources, and schedule for testing the OpenCart e-commerce website. This document serves as a guide for ensuring that the website meets its functional and non-functional requirements while delivering a high-quality user experience.

**1.2 Project Overview:** OpenCart is an open-source e-commerce platform that provides businesses with a customizable online store. For this testing effort, we will focus on a limited set of features critical to the platform's functionality, including user registration, product browsing, shopping cart functionality, and the checkout process. This test plan will ensure that these core features perform as expected, offering a seamless experience for users and administrators. We will not be testing the full set of features, such as admin panel functions, advanced integrations, or custom configurations, as this testing is limited to the specified features only.

# Scope

**2.1 In-Scope**

The following features and functions will be tested as part of this project

* User Registration and Login
* Product search and navigation
* Product details Page
* Shopping cart functionality
* Checkout Process

**2.2 Out of Scope**  
 The following features and functions will not be tested in this effort:

* Admin Panel Functionality
* Advanced Integrations
* Server Configuration and Infrastructure
* Advanced User Roles and Permissions
* Reports and Analytics

# 3. Testing Strategy

**Tools to be used for testing - JIRA**

**3.1 Testing levels:**  
 This will include majorly four sorts of testing i.e., Unit testing, Integration testing,   
 System testing and user acceptance testing.

* Unit Testing: Verifying individual components like login, registration, etc.
* Integration Testing: Ensuring seamless interaction between features like product browsing and cart functionality.
* System Testing: End-to-end tests simulating a typical user journey, such as browsing products and completing the checkout process.
* Acceptance Testing: Validating that the website meets the user requirements for basic shopping tasks.

**3.2 Types of Testing**

* Manual Testing
* Automation Testing
* Performance Testing

# 4. Test Deliverables

* Test Plan DocumentThe Test Plan document for OpenCart features.
* Test Cases and Test ScriptsDetailed test cases for the core functionalities (e.g., login, product search).
* Test Execution ReportsReports after executing tests, showing results of each test case.
* Defect Reports (if any)Documenting any defects found during testing.
* Final Test ReportA comprehensive report summarizing the test execution results.

# 5. Test Environment

**Hardware:**

* Server: ACER 5 (16 GB RAM, 500 GB SSD)
* User Devices:
  + Desktop (Windows 10)
  + Tablet (iOS, Android)
  + Smartphone (iOS, Android)

**Software:**

* Operating Systems:
  + Windows 10
  + macOS Catalina
  + Android 10
  + iOS 14
* Browsers:
  + Google Chrome (latest version)
  + Mozilla Firefox (latest version)
  + Safari (latest version)
  + Microsoft Edge (latest version)

**Test Data:**

* Valid user account credentials
* Sample products:
  + Product 1: T-shirt, $20
  + Product 2: Laptop, $800

# 

# 6. Test Schedule

Following is the test schedule planned for the subject:

| Activity | Start Date | End Date | Responsible Team |
| --- | --- | --- | --- |
| Test Planning |  |  |  |
| Test Case Design |  |  |  |
| Test Case Execution |  |  |  |
| Summary report submission |  |  |  |

# 7. Risk Analysis and Mitigation

* Potential Risks:
  + Incomplete Test data
  + Recent changes to the website
  + Environment issues
* Mitigation Measures:
  + Regular communication
  + Test data preparation
  + Pre-test environment checks

# 8. Entry and Exit Criteria

* Entry Criteria
  + Test environment is ready
  + Test data is available
  + Test cases are reviewed and approved
* Exit Criteria
  + All critical tests are executed
  + Major defects are resolved with approval
  + Final test summary report is reviewed and approved by QA Lead

# 9. Approvals

| Name | Role | Signature | Date |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |