# **Test plan for Opencart.com**

## **Test plan overview**

Project Name: Opencart.com testing

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Approved by:

Date: 3/3/2025

## **Objective**

The purpose of this test plan is to define the testing scope, approach, resources and schedule for the Opencart.com. The goal is to ensure that the website is functional, secure, userr-friendly and performs well before launch.

## **Scope**

* **In scope** (What will be tested?)
* User Authentication: Login, Registration
* Product Catalog: Search, Filters, Categories, Product Details
* Shopping Cart and Checkout: Add/Remove products, Payment
* Order Management: Order Tracking, Order History, Cancellations
* Performance Testing: Load testing, Stress Testing
* UI and Usability: Navigation, Layout, Responsiveness
* **Out-of-scope** (What will not be tested?)
* Backend Database tuning
* External third-party services
* Email/SMS notification
* Security Testing
* Payment Gateway

## **Testing Approach**

Testing will be performed using **Manual** method

## **Types of Testing**

* Functional Testing: Verify core website features
* UI/UX Testing: Ensure website usability and design consistency
* Performance testing: Test website speed, load handling
* Cross-Browser: Test on chrome, Firefox, Edge
* Regression Testing: Ensure new updates don’t break existing features

## **Tools Used**

* JIRA + Zephyr Scale (Test Management)
* Snipping Screenshot Tool
* Word and Excel documents

## **Test Environment**

* OS: Windows, macOS
* Browsers: Chrome, Firefox, Edge, Safari
* Device: Desktop
* Test Data: Dummy product listing, mock payment details

## **Test Deliverables**

* Test Plan Document
* Test Cases & Test Scenarios
* Defect Reports (Bug Reports)
* Test Execution Reports
* Test Summary Report

## **Test Strategy**

|  |  |
| --- | --- |
| **Component** | **Description** |
| Objectives | List the overall goals and objectives of the testing process. |
| Test Levels | Specify the testing levels (unit, integration, system, acceptance) and their respective purposes, scopes, and objectives. |
| Test Types | List the types of testing to be conducted (functional, non-functional, regression) and their purposes and scopes. |
| Test Techniques | Detail the testing techniques to be used for each test type (black-box, white-box, grey-box) and whether manual, automated, or a combination of both approaches will be employed. |
| Test Deliverables | List the test artifacts to be produced during the testing process (test plans, test cases, test scripts, test reports). |
| Test Environment | Describe the hardware, software, and network configurations required for testing, including target browsers, devices, and operating systems, as well as any tools or frameworks to be used. |
| Test Schedule | Provide an estimate of the time needed for each testing phase, taking into account resource availability, dependencies, and project deadlines. |
| Resource Allocation | Identify team members responsible for different testing tasks and outline their roles and responsibilities. |
| Risk Management | List potential risks and challenges that may arise during the testing process, along with contingency plans to address them. |
| Test Exit Criteria | Define the criteria that must be met before testing can be considered complete, such as a specific percentage of test cases executed, a certain level of test coverage, or a maximum number of unresolved defects. |

**Step 1:** The first step is to create test scenarios and test cases for the various features in Scope.

While developing test cases, we'll use a number of test design techniques.

* Equivalence Class Partition
* Boundary Value Analysis
* Decision Table Testing
* State Transition Testing
* Use Case Testing

We also use our expertise in creating Test Cases by applying the below:

* Error Guessing
* Exploratory Testing
* We prioritize the Test Cases

**Step 2:** Our testing procedure when we receive a request for testing:

• First, we'll conduct smoke testing to see if the various and important functionalities of the application are working.

• We reject the build, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.

• Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the Test Cases created.

• Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.

We then report the bugs in bug tracking tool and send dev. Management the defect found on that day in a status end of the day email.

As part of the Testing, we will perform the below types of Testing:

* Smoke Testing and Sanity Testing
* Regression Testing and Retesting
* Usability Testing, Functionality & UI Testing
* We repeat Test Cycles until we get the quality product.

**Step3** – We will follow the below best practices to make our Testing better:

• **Context Driven Testing** – We will be performing Testing as per the context of the given application.

• **Shift Left Testing** – We will start testing from the beginning stages of the development itself, instead of waiting for the stable build.

• **Exploratory Testing** – Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test cases.

• **End to End Flow Testing** – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

## **Entry and Exit Criteria**

**Entry Criteria:**

* Functional requirements are finalized.
* Test cases are reviewed and approved.
* Test environment is set up and stable.
* Application build is ready for testing.

**Exit Criteria:**

* All major defects are fixed and verified.
* 95% of test cases pass successfully.
* Performance and security testing are completed.
* Test summary report is approved.

## **Risk and Mitigation**

**Risk:** Late requirement changes

**Mitigation:** Regular meetings with stakeholders

**Risk:** Performance issues

**Mitigation:** Conduct load testing early

**Risk:** Compatibility issues

**Mitigation:** Test on multiple browsers and device

**Schedule and Timeline**

|  |  |  |
| --- | --- | --- |
| Phase | Start Date | End Date |
| Test Planning |  |  |
| Test Case Creation |  |  |
| Test Execution |  |  |
| Bug Fixing and Retesting |  |  |

## **Approvals**

|  |  |  |
| --- | --- | --- |
| Role | Name | Signature |
| Test Manager |  |  |
| Project Manager |  |  |