



# TEST PLAN

Product Name: OpenCart (Frontend)



## TEST PLAN DOCUMENT

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# 1. Overview

This Test Plan outlines the comprehensive approach for validating the frontend functionalities of the OpenCart demo application, accessible at <https://demo.opencart.com>.

The primary objective is to ensure that all user-facing features operate seamlessly, delivering an optimal experience across various devices and browsers. The document details the testing scope, methodologies, schedules, resource allocations, and deliverables, serving as a roadmap for the testing lifecycle.

## 2. Scope

The scope of the project includes testing the following features of <https://demo.opencart.com/> web application.

### 2.1 Inclusions

The testing will focus on the following key functionalities of the OpenCart frontend application:

- **User Account Management:** Registration, Login, Logout, and Password Recovery
- **Product Browsing:** Search functionality, Category Navigation, and Product Detail Views
- **Shopping Cart Operations:** Adding items to the cart, Viewing Cart contents, Updating item quantities, and Removing items
- **Checkout Process:** Billing Information Entry, Shipping Details, and Payment Method Selection
- **Order Management:** Viewing Order History and Order Details
- **User Preferences:** Managing Wish list and Product Comparison features
- **Site Navigation:** Verifying Header, Footer, and Menu functionalities
- **Responsive Design:** Ensuring layout and functionality across various devices and screen sizes

## 2.2 Test Environments

Testing will be conducted across the following platforms to ensure compatibility and responsiveness:

- **Desktop:**
  - Windows 10: Chrome, Firefox, Edge
  - macOS: Safari
- **Mobile:**
  - Android: Chrome Browser
  - iOS: Safari Browser

## 2.3 Exclusions

The following areas are outside the scope of this testing effort:

- **Backend Functionalities:** Administrative panel and related features
- **Third-Party Integrations:** External payment gateways and plugins
- **Test Automation:** Automated test scripts and related tools

# 3. Test Strategy

As part of this testing project, we will perform **Functional Testing** of all features listed in the Scope section. Our overall testing approach is as follows:

### Step 1 – Test Design

- Prepare detailed Test Scenarios and Test Cases.
- Apply the following test design techniques:
  - Equivalence Partitioning
  - Boundary Value Analysis
  - Decision Table Testing
  - State Transition Testing
  - Use Case Testing
  - Error Guessing and Exploratory Testing
- Prioritize Test Cases based on criticality and impact.

## Step 2 – Test Execution Process

- Begin with **Smoke Testing** to validate basic functionality and app stability.
- Reject unstable builds and wait for a stable version.
- Once passed, proceed with full Functional Testing using prepared test cases.
- Perform testing in parallel across supported browsers and devices.
- Report defects in a bug tracking tool and share daily status with the team.
- Types of testing to be performed:
  - Smoke & Sanity Testing
  - Functional & UI Testing
  - Regression & Retesting
  - Usability Testing

## Step 3 – Best Practices

- **Context-Driven Testing:** Tailor tests according to the application's purpose.
- **Shift Left Testing:** Start testing early in the development lifecycle.
- **Exploratory Testing:** Perform experience-based testing alongside test cases.

## 4. Defect Reporting Procedure

- During test execution, any deviation from expected behavior will be reported as a defect. If not a defect, it will be logged as an observation or a query.
- Usability issues will also be reported and documented separately.
- Each defect will be retested to ensure it is reproducible.
- Defects will be documented with the following details:
  - Unique ID
  - Summary
  - Steps to Reproduce
  - Expected vs. Actual Results
  - Severity and Priority
  - Screenshots or recordings (if needed)
- Defects will be logged in a defect tracking tool (e.g., Excel or JIRA).
- A daily defect report will be shared with the team, along with test observations.

## 5. Roles and Responsibilities

Role	Responsibilities
Test Manager	Approve test plan, allocate resources, oversee testing phases
Test Lead	Develop test plan, coordinate testing activities, report status
Test Engineer	Design test cases, execute tests, log defects

## 6. Test Schedule

Following is the test schedule planned for the project

Activity	Start Date	End Date
Test Plan Preparation	May 15, 2025	May 16, 2025
Test Case Creation	May 17, 2025	May 19, 2025
Test Environment Setup	May 20, 2025	May 20, 2025
Test Execution	May 21, 2025	May 24, 2025
Summary Reports Submission	May 21, 2025	

## 7. Test Deliverables

- Test Plan Document
- Test Scenarios and Test Cases
- Defect Reports
- Test Summary Report
- Requirement Traceability Matrix (RTM)

## 8. Pricing

Not applicable for this practice project.

## 9. Entry and Exit Criteria

Below are the entry and exit criteria followed across different phases of the Software Testing Life Cycle (STLC):

### Requirement Analysis

- **Entry Criteria:**
  - Project details or Requirement documents are shared with the QA team.
- **Exit Criteria:**
  - All requirements are reviewed and understood.
  - Queries (if any) are clarified.

### Test Planning

- **Entry Criteria:**
  - Clear and testable requirements are finalized.
  - No major open questions from the QA side.
- **Exit Criteria:**
  - Test Plan (including strategy and scope) is prepared and reviewed.

### Test Design

- **Entry Criteria:**
  - Approved Test Plan is available.
- **Exit Criteria:**
  - Test Scenarios and Test Cases are prepared and reviewed.

### Test Execution

- **Entry Criteria:**
  - Application is ready and stable for testing.
  - Test Cases are finalized.

- **Exit Criteria:**
  - All planned test cases are executed.
  - Defects are logged, tracked, and retested.
  - Daily and Final Test Reports are prepared.

## Test Closure

- **Entry Criteria:**
  - Test Execution is completed.
  - Defect resolution and retesting is done.
- **Exit Criteria:**
  - Test Summary Report is created.
  - Final sign-off is obtained from stakeholders.

## 10. Suspension and Resumption Criteria

- **Suspension:** Testing will be suspended if critical defects block further testing or if the test environment becomes unstable.
- **Resumption:** Testing will resume once blocking issues are resolved and the environment is stable.

## 11. Tools

The following are the list of Tools we will be using in this Project:

- **Test Management:** Microsoft Excel
- **Defect Tracking:** XYZ Tool
- **Documentation:** Microsoft Word
- **Screen Capture:** Snipping Tool

## 12. Risks and Mitigations

The following are the list of risks possible and the ways to mitigate them:



Risk	Mitigation
Non-availability of testing resource	Plan for backup testers and flexible team allocation
Build URL is inaccessible	Utilize time to work on pending tasks like documentation
Limited testing time	Increase team size or prioritize critical test cases
Delay in requirement clarification	Schedule quick sync-up calls with stakeholders
Frequent build changes	Plan for impact analysis and maintain regression suite

## 13. Approvals

Team will send different types of documents for Client Approval like below:

- Test Plan
- Test Scenarios
- Test Cases
- Reports

Testing will only continue to the next steps once these approvals are done.

