

# TEST PLAN

PROJECT NAME: OPEN CART WEBSITE

QA engineer : Tharushi Nimesha

2025/11/02

## Contents

Introduction .....	2
Test Objectives.....	2
Scope Of The Testing.....	2
Inclusion.....	2
Exclusions.....	3
Test Environments .....	3
Test Strategy .....	3
5.1 Testing Types .....	4
5.2 Testing Levels.....	4
4.3 Testing Approach .....	4
Test Deliverables.....	5
7. Entry & Exit Criteria.....	5
Entry Criteria .....	5
Exit Criteria.....	5
ROLES & RESPONSIBILITIES.....	6
Test Schedule .....	6
Risk & Mitigation.....	6
Tool Used .....	6
Approval.....	7

## Introduction

The purpose of the test plan is to define the strategy, objectives, resources, objectives, scope and schedule for testing the Open cart application . The goal is to ensure the website's key functionalities like login, register, Wishlist, shopping cart, checkout and project management work as expected and meet business requirements.

## Test Objectives

- To verify all functional requirements of the OpenCart system.
- To identify defects and ensure they are fixed before release.
- To ensure the application performs smoothly across browsers and devices.
- To validate that all modules (Login, Cart, Checkout, Admin Panel, etc.) are integrated correctly.

## Scope Of The Testing

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

### Inclusion

- Register
- Login & Logout
- Forgot Password
- Search
- Product Compare
- Product Display Page
- Add to Cart
- Wish List

- Shopping Cart
- Currencies
- Home Page
- Checkout Page
- My Account Page
- Order History Page
- Downloads Page
- Contact Us Page
- Menu Options
- Footer Options

## Exclusions

- Real payment gateway transactions
- Third-party plugins not included in base OpenCart
- Load and Performance Testing (for now)

## Test Environments

- Windows 10 – Chrome, Firefox and Edge
- Mac OS – Safari Browser
- Android Mobile OS – Chrome
- iPhone Mobile OS - Safari

## Test Strategy

'Tharushi' has communicated with 'open cart' and has understood that we need that we need to perform Functional testing of all the functionalities mentioned in the above Scope section.

## 5.1 Testing Types

Type	Purpose / Description
<b>Functional Testing</b>	Verify each function and module (Home, Login, Product Listing, Checkout, etc.) works according to defined requirements.
<b>UI/UX Testing</b>	Validate user interface elements — layout, buttons, alignment, colors, and fonts — to ensure consistency, readability, and intuitive navigation across pages.
<b>Regression Testing</b>	Re-run previously executed test cases after bug fixes or new features are added to confirm no existing functionality is broken.
<b>Smoke Testing</b>	Perform initial high-level testing on new builds to ensure critical functionalities (login, add to cart, checkout) are working before deeper testing begins.
<b>Cross-Browser Testing</b>	Ensure that the application performs correctly and displays properly on multiple browsers: <b>Chrome, Firefox, Edge, and Safari</b> .
<b>Responsive Testing</b>	Verify that the website layout and elements adapt correctly on various screen sizes (desktop, tablet, and mobile devices).
<b>Compatibility Testing (Optional)</b>	Validate the website's performance on different operating systems and device types.
<b>Performance Testing (Optional)</b>	Check that the application loads within 3 seconds and performs well under normal user load conditions.

## 5.2 Testing Levels

Level	Purpose / Description	Responsibility
<b>Unit Testing</b>	Verifies individual components or functions (e.g., login validation, product price calculation) are working as intended. This level ensures the smallest pieces of code behave correctly in isolation.	Developer
<b>Integration Testing</b>	Ensures that combined modules (e.g., product listing connected to the shopping cart, or checkout connected to user account) interact correctly and pass data as expected.	QA Engineer & Developer
<b>System Testing</b>	Performs end-to-end testing of the entire OpenCart website to ensure all functional and non-functional requirements are met. This includes real user flows — from product browsing to order confirmation.	QA Engineer
<b>User Acceptance Testing (UAT)</b>	Conducted from the user's perspective to verify the system meets business needs and is ready for production. Testers simulate customer journeys (e.g., account creation, product purchase).	QA Team / Product Owner

## 4.3 Testing Approach

### 1. Manual Testing:

- Primary approach for validating UI, functional, and integration modules.
  - Test cases will be created and executed based on the requirement document.
2. **Defect Reporting & Tracking:**
    - All identified defects will be logged in **Jira** with proper details (steps, screenshots, severity, and priority).
    - Developer fixes will be verified through retesting and regression cycles.
  3. **Test Data Preparation:**
    - Dummy users, products, and coupons will be created in the test environment to simulate real user actions.
  4. **Retesting & Closure:**
    - After all critical issues are resolved, final regression testing will be done before project closure.

## Test Deliverables

- Requirement Understanding Document
- Test Scenarios Document
- Test Cases Document
- Defect/Bug Report
- Test Summary Report
- RTM (Requirement Traceability Matrix)

## 7. Entry & Exit Criteria

### Entry Criteria

- Requirements document approved.
- Application build available for testing.
- Test environment ready.

### Exit Criteria

- All critical test cases executed and passed.
- No open critical or high-severity defects.

- Test Summary Report prepared and signed off.

## ROLES & RESPONSIBILITIES

Role	Responsibility
QA Engineer	Create test cases, execute tests, log defects, and prepare reports.
QA Lead	Review test documents, manage defect life cycle.
Developer	Fix reported defects.
Product Owner	Validate and approve final test results.

## Test Schedule

Activity	Duration	Responsible
Requirement Analysis	1 day	QA Engineer
Test Planning	1 day	QA Engineer
Test Case Design	2 days	QA Engineer
Test Execution	3 days	QA Engineer
Bug Reporting & Retesting	2 days	QA Engineer
Test Summary & Closure	1 day	QA Lead

## Risk & Mitigation

Risk	Impact	Mitigation
Unclear requirements	High	Discuss with product owner and clarify.
Browser compatibility issues	Medium	Use responsive design and test across devices.
Data loss during checkout	High	Backup test data and simulate transactions only.

## Tool Used

- **Jira** – Test management and defect tracking
- Word - Requirement analyzing documentation and Test plan documentation
- **Excel / Google Sheets** – Test case and RTM documentation
- **Browser Stack** – Cross-browser testing

- **Snipping Tool / Light shot** – Screenshot evidence

## Approval

Name	Role	Signature	Date
Tharushi Nimesha	QA Engineer		2025-11-05
QA Lead	Reviewer		
Project Manager	Approver		