

TEST PLAN

Product Name: OpenCart (Frontend)

Prepared By: Nikhitha Prakasan

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1. OVERVIEW

This document outlines the Test Plan for the **OpenCart Frontend Application**, an e-commerce platform that allows customers to browse, search, and purchase products online.

Testing will be conducted by the QA team at **XYZ Software Solutions** to validate key functionalities, ensure smooth user experience, and verify that the application works as expected on all supported environments.

2. SCOPE

The main goal of this testing is to verify the functionality, usability, and stability of the **OpenCart demo application**: <https://demo.opencart.com>

In-Scope Modules

- User Registration
- User Login & Logout
- Forgot Password
- Product Search
- Product Compare
- Product Display Page
- Add to Cart
- Wish List
- Shopping Cart
- Multi-Currency Options
- Home Page
- Checkout Flow
- My Account Page
- Order History Page
- Downloads Page
- Contact Us Page
- Menu & Footer Links
- Category Pages

3. TEST ENVIRONMENT

Platform / OS	Supported Versions	Browsers Used for Testing	Remarks
Windows 11	Latest updates installed	Google Chrome (Latest), Microsoft Edge (Latest), Mozilla Firefox (Latest)	Desktop Testing

macOS (Monterey / Ventura / Sonoma)	Latest stable version	Safari (Latest), Google Chrome (Latest)	Cross-browser UI Testing
Android OS	Android 11 and above	Google Chrome (Latest), Samsung Internet	Mobile Responsiveness Testing
iOS (iPhone / iPad)	iOS 15 and above	Safari (Latest), Chrome (Latest)	Mobile Safari Compatibility Testing
Linux (Ubuntu)	20.04 and above	Mozilla Firefox, Chrome	Optional Environment for cross-verification

4. EXCLUSIONS

- Third-party integrations (e.g., payment gateways)
- Admin backend functionalities
- Any modules or APIs not listed in the scope

5. TEST STRATEGY

APPROACH

Testing will follow a **Systematic Functional Testing Approach**, focusing on user-facing functionalities and real-world workflows.

1. Test Design

Test Scenarios and Test Cases will be designed using techniques such as:

- Equivalence Partitioning
- Boundary Value Analysis
- Decision Table Testing
- State Transition and Use Case Testing
- Exploratory and Error Guessing techniques will be applied for hidden defects.

2. Testing Phases

- **Smoke Testing:** To validate the stability of builds.
- **Functional Testing:** To verify each feature against requirements.
- **Regression Testing:** To ensure new fixes don't affect existing modules.
- **Usability & UI Testing:** To assess ease of navigation and design consistency.
- **Re-testing:** To confirm fixes for identified defects.

3. Best Practices

- Shift-Left Testing
- End-to-End Scenario Validation
- Parallel Cross-Browser Testing

6. DEFECT REPORTING PROCEDURE

- All defects identified during execution will be logged in a **Defect Tracking Sheet** with proper ID, summary, steps, expected vs actual results, screenshots, severity, and priority.
- Defects will be reviewed and discussed with the development team daily.
- Re-tested defects will be marked as “Closed” after verification.

7. ROLES AND RESPONSIBILITIES

Role	Responsibility
Test Manager	Handles escalations, manages overall QA activities.
Test Lead	Creates test plan, reviews test cases, tracks execution, validates defects, and provides daily reports.
Senior Test Engineer	Designs and executes complex scenarios, ensures coverage, and mentors the team.
Test Engineer	Executes test cases, reports defects, and retests resolved issues.

8. TEST SCHEDULE

Activity	Duration
Test Plan Preparation	Start Date → End Date
Test Case Design	Start Date → End Date
Test Execution	Start Date → End Date
Defect Reporting	Continuous throughout testing
Summary Report Submission	On completion of testing

9. TEST DELIVERABLES

Deliverable	Description
Test Plan	Defines the testing approach, objectives, and schedule.
Test Scenarios & Cases	Covers all functional and UI test conditions.
Defect Report	Contains details of all identified defects with evidence.
Test Execution Report	Includes executed test results and pass/fail status.
Summary Report	Final summary including overall quality metrics and defect analysis.

10. ENTRY AND EXIT CRITERIA

Phase	Entry Criteria	Exit Criteria
Requirement Analysis	Requirements received and clarified	Requirements understood by QA team
Test Planning	Requirements confirmed	Test Plan approved by client
Test Design	Approved Test Plan	Test Scenarios and Cases completed

Test Execution	Approved Test Cases and stable build	All test cases executed, defect reports ready
Test Closure	Test Execution complete	Summary Report submitted and approved

11. SUSPENSION AND RESUMPTION CRITERIA

Testing will be **suspended** if:

- The application build is unstable or unavailable.
- Major blockers prevent further testing.
Testing will **resume** once the issues are resolved or a stable build is provided.

12. TOOLS

- Excel / Google Sheets (Test & Defect Documentation)
- Mind Map Tools (Scenario Planning)
- Snipping Tool / Lightshot (Screenshots)
- Browser Developer Tools

13. RISKS AND MITIGATION

Risk	Mitigation
Resource Unavailability	Maintain backup tester(s)
Build/Server Down	Coordinate with DevOps or test alternate modules
Tight Deadlines	Prioritize high-risk and business-critical scenarios

14. APPROVALS

The following documents require client or stakeholder sign-off before proceeding to next phases:

- Test Plan
- Test Scenarios & Test Cases
- Test Execution Reports
- Final Summary Report

Testing will move to the next phase only after receiving respective approvals.