



Project Name: OpenCart (Frontend)

Test Plan

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1. Introduction

This document describes some test functionality of <https://demo.opencart.com/> website which is PHP-based, using a MySQL database and HTML components. It includes the objectives, scope, test responsibilities, entry and exit criteria, and schedule of major milestones, approaches, risks, and acronyms.

2. Scope

This project's scope involves testing the functionality, usability, and performance of the features available in the **Open Cart application** at <https://demo.opencart.com/>. The focus is ensuring the application meets quality standards and provides a seamless user experience.

2.1 In Scope

The features included in the scope of testing are as follows:

1. Register Account:

- Well-organized menu.
- Ability to input "First Name", "Last Name", "E-Mail", "Telephone", "Password" etc. to create a new account.

2. Login & Logout:

- Well-organized menu.
- Ability to choose currency.
- Options for "Contact," "My Account," "Wish List," "Shopping Cart," "Checkout," and "Item."
- Forgot the password link.
- Should have a back option.

3. Search

- Organized Search bar

4. Product Compare

- Compare specifications, features, and prices of multiple products.
- Support for "Back" and "Show More/Show Less" options.
- Functional "Add to Cart" and "Remove" options.

5. Your Store Page

- Currency selection functionality.
- Options for:

- Contact
 - "My Account"
 - "Wish List"
 - "Shopping Cart"
 - "Checkout"
 - Displaying items in the cart.
- Functional, clickable company logo in the top left.
 - Product search functionality with results organized by category.
 - "Show All Features" and "Show More/Show Less" for product descriptions.
 - Detailed product options, including clickable products and cart icons.
 - "Wish List" and "Compare" options for products.
 - Seamless navigation to the OpenCart homepage.
 - Pagination with functional page numbers and next/previous buttons.
 - Accurate price display for products.
 - Scrollable product sections.

6. Product Detail Page

- Product image display with alternate view options.
- Product details:
 - Code
 - Availability
 - Price
- Cart functionality:
 - Quantity selection
 - "Add to Cart," "Wish List," and "Compare" options.
- Rating and sharing options:
 - Rate the product
 - Share on social media
- Tabs for detailed product descriptions and reviews.

7. Additional Features

The following features will also be tested:

- **Add to Cart** functionality.
- **Wish List** management.
- **Shopping Cart** operations.
- Currency selection and updates.
- Checkout process and related workflows.
- **My Account Page**: Managing user details and settings.
- **Order History**: Viewing past orders.
- **Download Page**: Accessing downloadable content.
- **Contact Us Page**: Sending inquiries.
- Menu and footer options for navigation.

- Category pages for organized browsing.

2.2 Out Scope

- Any feature added later
- Automation

3. Test Environments

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

4. Test Approach

4.1 Overview

This project will follow the Agile methodology, with work updated based on weekly iterations. The work is distributed according to a requirement-based strategy specified in this test plan. Each feature will be tested separately and together after each phase, with reports delivered according to the schedule. Test cases should be created during exploratory testing. Testing methodologies (In scope/Out of Scope) are given below:

4.2 Test levels

4.2.1 In Scope

- Functional Testing: Black-box testing geared to the application's functional requirements.
- Integration Testing: Verify combined functionality after integration.
- Performance Testing: Check if the system meets performance requirements.
- Cross-browser Testing: Ensure system support across different browsers.
- Security Testing (Payment): Check application security against internal and external threats.
- UAT (User Acceptance Testing): From a tester's perspective.
- Regression Testing: Validate existing functionalities as part of regression tests (Cart, Checkout Flow).
- Progression Testing: Validate new functionalities.
- Fixed defects validation.

4.2.2 Out of Scope

- Database Testing
- API Testing
- Automation Testing

4.3 Test Strategy

✓ Test Case Preparation and Execution

1. Test Case Preparation:

- The QA team will prepare comprehensive test cases covering all scenarios and requirements.
- Peer reviews of test cases and the Test Matrix will be conducted periodically by the QA Lead.

2. Review Process:

- The author of the test cases and Test Matrix will address comments or suggestions for improvement provided during reviews.
- The author will make revisions and re-submit for approval.
- Enhancements will be reviewed and approved by the designated reviewer.

3. Test Case Execution:

- QA team members will execute test cases on the test site using designed scenarios, and test cases, and prepare test data.
- Test results (actual vs. expected outcomes) will be documented in the test case document as **Pass** or **Fail**.

✓ Defect Logging and Reporting

1. Defect Logging:

- Identified defects/bugs will be logged into the appropriate defect management tool.
- QA will promptly notify the respective developer about the logged issues.

2. Defect Reporting:

- Detailed defect reports will include the defect description, steps to reproduce, severity, and screenshots (if applicable).
- The status of defects will be tracked in the defect management tool.

✓ Retesting

1. Retest Process:

- QA will re-test fixed bugs after developers have resolved them.
- The status of bugs will be updated in the defect management tool as **Fixed** or **Reopened** based on the re-test outcome.

2. Regression Testing:

- If required, regression testing will be conducted to ensure that bug fixes have not affected other parts of the application.

✓ Deployment/Delivery

1. Deployment:

- After all reported bugs are fixed and no further issues are identified, the Project Manager (PM) will deploy the application to the test site.

2. Final QA Testing:

- QA will conduct a final testing round on the test site to ensure the quality of the deployed application.
3. **Delivery:**
- The finalized test report, along with sample outputs, will be delivered via email to the respective team members.
 - QA will provide the developers with hard copies of delivery documents as required.

4.4 Bug Triage

- Define the resolution type for each bug.
- Prioritize bugs and determine a schedule for all "To Be Fixed" bugs.

4.5 Suspension Criteria and Resumption Requirements

- Suspension criteria define when to suspend testing.
- Resumption criteria determine when testing can resume after suspension.

4.6 Test Completeness

- 100% test coverage.
- All manual test cases are executed.
- All open bugs are fixed or will be fixed in the next release.

5. Roles/Responsibilities

Name	Role	Responsibilities
Person A	PM	<ul style="list-style-type: none"> ✓ Handle escalations. ✓ Oversee overall testing process and ensure timelines are met. ✓ Ensure that all testing activities are aligned with the project goals and quality standards. ✓ Manage resources, including test tools, personnel, and scheduling ✓ Communicate progress, issues, and results to stakeholders.
Person B	QA Lead	<ul style="list-style-type: none"> ✓ Create the Test Plan and obtain client signoffs. ✓ Interact with the application to create and execute test cases. ✓ Report defects found during testing. ✓ Coordinate test execution and validate the accuracy of reported defects.

		<ul style="list-style-type: none"> ✓ Submit daily issue updates and summary defect reports to the client. ✓ Attend meetings with the client to discuss progress, risks, and issues.
Person C	Senior Test Engineer	<ul style="list-style-type: none"> ✓ Interact with the application to test functionality. ✓ Create and execute detailed test cases. ✓ Report defects with clear steps to reproduce, severity, and impact.
Person D	Test Engineer	<ul style="list-style-type: none"> ✓ Interact with the application to execute predefined test cases. ✓ Report defects identified during test execution.

6. Entry and Exit Criteria

6.1 Entry Criteria

The testing phase will commence when the following conditions are met:

- QA team completely understands the requirements and has reviewed the Functional Requirements Specification (FRS) document.
- QA resources are well-versed with the application's functionality.
- Test scenarios and test cases have been reviewed and approved.
- The Test Plan document is finalized and approved.
- All necessary documentation, design, and requirements information is available to operate the system and validate its behavior.
- Unit test cases for the application have passed successfully.
- Smoke testing of the application has been completed (if applicable).

6.2 Exit Criteria

The testing phase will conclude when the following conditions are met:

- Execution of all planned test cases is completed.
- A defined level of requirements coverage has been achieved.
- All Severity 1 and 2 defects have been resolved.
- No high-priority defects remain outstanding.
- UAT (User Acceptance Testing) test evidence has been collected.
- A Test Closure Memo has been completed and signed off.

7. Test Deliverables

Before the Testing Phase

- Functional Requirements Specification (FRS) document.
- Test Plan document.
- Test scenarios.
- Test cases documentation.
- Test design specifications.

During the Testing Phase

- Test tool simulators.
- Test data sets.
- Test Traceability Matrix.
- Error logs and execution logs.

After Testing Cycles

- Comprehensive test results/reports.
- Defect reports with detailed logs.
- Installation and test procedures guidelines.
- Release notes detailing changes and fixes in the release.

8. Resources & Environment Needs

8.1 Resources

- Description

Database server with MySQL.

Web server with Apache.

LAN with at least 5 Mb/s speed.

- Network

Windows 10, 4GB RAM, 3.4GHz CPU

8.2 Testing Tools

The following tools will be used during the testing process:

- **Test Case Creation:** Microsoft Excel
- **Test Case Tracking:** Microsoft Excel

- **Test Case Execution:** Manual
- **Test Case Management:** Microsoft Excel
- **Defect Management:** Jira
- **Test Reporting:** Microsoft Excel and Jira

8.3 Configuration Management

- **Version Control System:** GitHub

8.4 Test Environment

The testing environment will support the following configurations:

Support Level (Browsers)

- **Operating System:** Windows 10
- **Browsers Supported:**
 - Edge (latest version)
 - Chrome (latest version)
 - Firefox (latest version)
 - Safari (latest version)

9. Task Schedule

Task Name	Time Duration
Creating Test Plan	17-jan to 18-jan
Test Case Creation	19-jan to 20-jan
Test Case Execution	
Summary Report Submission	

10 Test Deliverables

The following are to be delivered to the client:

Deliverables	Description	Target Completion Date
Test Plan	Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule	
Functional Test Cases	Test Cases created for the scope defined	
Defects Reports	Detailed description of the defects	

	identified along with screenshots and steps to reproduce daily.	
Summary Reports	Summary Reports Bugs by Bug#, Bugs by Functional Area and Bugs by Priority	

11 Risk & Assumptions

Risks:

- Payment methods may fail with internet fluctuations.
- The system may fail to load on old/no-updated browsers with JavaScript disabled.

Assumptions:

- For some optimization of resources, the test plan may fail.
- Maintain backup resources.
- Availability of test tools.
- Skill level of resources.

12 Approvals

- The 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.