

Test Plan Document for OpenCart



Version 1.0

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| Author | Comments | Date |
|--------|---------------|----------|
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1. Project Overview

This document serves as high level test planning document with details on the scope of the project, test approach and methodology, test schedule and resource requirements, test deliverables and schedule of the OpenCart Application. OpenCart is a free open-source e-commerce platform for online merchants. OpenCart provides a professional and reliable foundation from which to build a successful online store. This foundation appeals to a wide variety of users ranging from seasoned web developers looking for a user-friendly interface to use, to shop owners just launching their business online for the first time. OpenCart has an extensive number of features that give you a strong hold over the customization of your store.

The purpose of this QA effort is to verify and validate the core features that represent the core experience of OpenCart's user interface and functional behavior. This will involve manual testing for validation and some foundational automation script using Selenium WebDriver to simulate real user interaction.

2. Objectives

- Verify that all user-interactive features meet their functional expectations under various input and conditions.
- Ensure the platform is intuitive and user friendly across operating environments.
- Identify and document any bugs, workflow bottlenecks or display inconsistencies.
- Establish a test foundation to support scalable automation in future regression.

3. Reference Documents

- Functional Requirement Specification (FRS)

4. Areas To Be Tested

The scope of the project includes testing the following features of OpenCart.

1. Register
2. Login & Logout
3. Forgot Password
4. Search
5. Product Compare

6. Product Display Page
7. Add to Cart
8. Wish List
9. Shopping Cart
10. Currencies
11. Home Page
12. Checkout Page
13. My Account Page
14. Order History Page
15. Downloads Page
16. Contact Us Page
17. Menu Options
18. Footer Options
19. Category Pages

5. Areas Not Requiring Testing

- All the features except that are mentioned under 'Inclusions'
- Any third-party features or Payment gateways

6. Type of Testing

As part of testing, we will perform the following types of testing:

1. Smoke Testing
2. Sanity Testing
3. Regression Testing
4. Usability Testing
5. Functional Testing
6. UI Testing
7. Exploratory Testing

7. Test Approach and Methodology

7.1 Test Approach

The testing process will combine both manual and automated testing to achieve thorough coverage:

- **Manual Testing:** Conduct exploratory and scripted testing for usability and complex workflows.
- **Automated Testing:** Develop selenium-based scripts in JavaScript to automate repetitive functional tests.

7.2 Test Methodology:

Test Case Development: We will apply several Test cases designing techniques while creating Test Cases

- 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 will priorities the high impact Test Cases for high impact features.

Defect Tracking: We will log defects with clear steps to reproduce; severity and screen using Jira or excel.

Iterative Testing: Conduct multiple testing cycles to validate fixes and ensure regression-free functionality.

8. Test Environment

Operating Systems: Windows 11, Android 14, Mac OS 15 Sequoia

Browser: Chrome, Firefox and Safari

9. Test Entry and Exit Criteria

9.1 Entry Criteria

- Requirement Specification Document is finalized and approved.
- Test Plan has been made.
- Test cases are documented and reviewed.
- Test Environment are set up.
- Automation Scripts are ready to be executed.

9.2 Exit Criteria

- Completion of all planned test cases execution.
- Critical and high severity defects are resolved.
- Test results and defect reports are documented and shared with the stakeholder.

10. Roles and Responsibilities

| Name | Role | Responsibilities |
|--------|----------------------|---|
| Scott | Test Lead | <ul style="list-style-type: none">✓ Create the Test Plan and get the client signoffs✓ Interact with the application, create and execute the test cases✓ Report defects✓ Coordinate the test execution. Verify validity of the defects being reported.✓ Submit daily issue updates and summary defect reports to the client.✓ Attend any meeting with client. |
| David | Senior Test Engineer | <ul style="list-style-type: none">✓ Interact with the application✓ Create and execute the test✓ Report Defects |
| Faisal | QA Engineer | <ul style="list-style-type: none">✓ Interact with the application✓ Create and execute the test✓ Report Defects |

11. Test Schedule

| Task | Start Date | End Date |
|--|------------|----------|
| Test Case Development | DD-MM-YY | DD-MM-YY |
| Test Environment Setup | DD-MM-YY | DD-MM-YY |
| Test Execution (Manual Testing) | DD-MM-YY | DD-MM-YY |
| Test Execution (Automation Testing) | DD-MM-YY | DD-MM-YY |
| Defect Report and Tracking | DD-MM-YY | DD-MM-YY |
| Regression Testing | DD-MM-YY | DD-MM-YY |
| Test Report Generation | DD-MM-YY | DD-MM-YY |

12. Test Deliverables

The following are to be delivered to the client:

- ✓ Test Plan Document
- ✓ Test Case Document
- ✓ Selenium automation script (with README.md)
- ✓ Defect Reports
- ✓ Test Execution Report

13. Suspensions and Resumptions Criteria

Based on the Client decision, we will suspend and resume the Project.

We will ramp up and ramp down the resources as per Client needs.

14. Risk and Mitigation

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

| Risk | Mitigation |
|--------------------------------|------------------------------------|
| Non-Availability of a Resource | Backup Resource Planning |
| Build URL is not working | Resources will work on other tasks |

| | |
|------------------------------|---|
| Hardware Failure during Test | Make ready IT team also maintain backup Hardware resources. |
| Less time for Testing | Ramp up the resources based on the Client needs dynamically |

15. 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.