

Test Plan

Product Name: OpenCart (Frontend)

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Overview

OpenCart is an E-commerce website. As a part of the project, “**OpenCart**” asked the Testing Team to test few functionalities of the ‘https://demo.opencart.com/’ web application.

This document details the scope of the project, test strategy, test schedule, resource requirements, risk and mitigation, test deliverables. It includes what will be tested, who will done testing, how testing will be done and when testing will be done.

Scope

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

Inclusions (What to be Tested): -

- 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
- Download Page
- Contact Us Page
- Menu Operations
- Footer Operation
- Category Pages

All above functional areas need to be Tested by Testing Team.

Exclusions (What not to be Tested): -

- All the features except that are mentioned under '**Inclusion**'
- Any third-party features or payments gateways
- Test Automation

Test Environments:-

- Windows 11– Chrome, Firefox and Edge
- Android Mobile OS– Chrome

Test Strategy

Testing team communicated with '**OpenCart**' and has understood that we need to perform Functional Testing of all the functionalities mentioned in the above scope section.

As part of Functional Testing, we will follow the below approach for Testing:

1:- Creation of Test Scenarios and Test Cases for the different features in scope.

- We will apply here Several Test Designing techniques while creating Test Cases
 - Equivalences Class Partition
 - Boundary Value Analysis
 - Decision Table Testing
 - State Transition Testing
 - Use Cases Testing
- We also use Testers expertise in creating Test Cases by applying the below:
 - Error Guessing
 - Exploratory Testing
- We priorities the Test Cases

2:- Our Testing process, when we get an Application for Testing:

- Firstly we will perform Smoke Testing to check whether the different and important functionality of deployed software or application are stable or not.

- We will reject the build, if Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.
- Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the Test Cases created.
- Multiple Test Resources will be testing the same application on Multiple Supported Environments simultaneously.
- Report the bugs in Bug tracking tool and send to development team management the defect found on that day in a status end of the day email.
- As a part of the Testing, we will perform the below types of Testing:
 - Smoke Testing
 - Sanity Testing
 - Regression Testing
 - Retesting
 - Usability Testing
 - Functional & UI Testing
- We repeat Test Cycles until we get quality product.

3:- We will follow the best practices to make our Testing better:

- Context Driven Testing - We will be performing Testing as per the context of the given application.
- Shift Left Testing – We will start testing from the beginning stages of the development itself, instead of waiting for the stable build.
- Exploratory Testing – Here we perform Exploratory testing for testing the functionality by exploring its features without having the specification in hand.
- End to End Testing – We will test the end to end scenario which involve multiple functionalities to end user flows.

Defect Reporting Procedure:-

During the Test Execution –

- Any deviation from expected behavior by the application will be noted.
- Any usability issues will also be reported.
- After discovery of a defect, it will be retested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.

- Every day, at the end of the test execution, defects encountered will be sent along with the observation.

NOTE:

- Defects will be documented in an excel.
- Test scenarios and Test cases will be documented in an excel document.

Roles and Responsibilities

Name	Role	Responsibilities
Person ABC	Test Manager	✓ Escalations
Person DEF	Test Lead	✓ 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.
Person PQR	Senior Test Engineer	✓ Interact with the application. ✓ Create and Execute the Test Cases. ✓ Report defects.
Person XYZ	Test Engineer	✓ Interact with the application. ✓ Create and Execute the Test Cases. ✓ Report defects.

Test Schedule

Following is the test schedule planned for the project –

Task	Time Duration
• Creating Test Plan	14/10/2024 to 20/10/2024
• Test Cases Creation	Starting Date to End Date
• Test Cases Execution	Starting Date to End Date
• Summary Reports Submission	Date

Test Deliverables

The following are to be delivered to the client:

Deliverables	Description	Target Completion Date
Test Plan	Details of the scope of the project, test strategy, test schedule, resources, requirements, test deliverables.	Date
Functional Test Cases	Test cases created for the scope defined.	Date
Defect Reports	Details description of the defects identified along with screenshots and steps to reproduce on a daily basis.	Date
Summary Reports	Summary Reports- Bugs by bug, Bugs by Functional area and Bugs by Priority	Date

Pricing

NA

Entry and Exit Criteria

The below are the entry and exit criteria for every phase of Software Testing Life Cycle:

Requirement Analysis

Entry Criteria:

- Once the testing team receives the Requirements Documents or details about the project.

Exit Criteria:

- Requirements documents are explored and analyze by Testing team.
- Doubts are cleared.

Test Planning

Entry Criteria:

- On the basis of Requirement, Test plan strategy is defined and Test estimation also defined.

Exit Criteria:

- Test Plan document (includes Test Strategy) is signed off by the Client.

Test Designing

Entry Criteria:

- On the basis of Requirement, Test Scenario, Test Cases and Test data are prepare.

Exit Criteria:

- Test Scenario, Test Cases documents are signed off by the Client.

Test Environment Setup

Entry Criteria:

- Setup of software and Hardware on which Testing Team will perform Testing. It includes necessary network, hardware and other related software and tools.

Exit Criteria:

- Test Environment closely simulating the real world Environment is prepared.

Test Execution

Entry Criteria:

- By referring the Test Cases document, Test Cases Execution starts. Retested once resolved.

Exit Criteria:

- Test case reports, Defect Reports are prepared.

Test Closure

Entry Criteria:

- Test closing reports having Test Cases reports, Test result summary and Test Matrix are prepared.

Exit Criteria:

- Test closing summary reports are signed off by the client.

Suspension and Resumption Criteria

Based on the Client decision, we will suspended and resume the project.

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

Tools

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

- Word and Excel documents.
- Screenshot features of Laptop.

Risks and Mitigations

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

Risk: Non-Availability of a Resources.

Mitigation: Backup Resources Planning.

Risk: Build URL is not working.

Mitigation: Resources will work on other tasks.

Risk: Less time for Testing.

Mitigation: Ramp up the resources based on the Client needs dynamically.

Approvals

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

- Test Plan
- Test Scenario
- Test Cases
- Test Reports

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