Test Plan

Opencart is an easy to-use, powerful, Open-Source online store management program that can manage multiple online stores from a single back-end.

Project Name: OpenCart

Project URL: www.opencart.com

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Date: May 19, 2022

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Overview

As a part of the project, 'OpenCart' asked Pavan to test few functionalities of "https://demo.opencart.com /" web application.

This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.

Scope

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

Inclusions

- 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.
- Contacts Us Page.
- Manu Options.
- Category Pages.

From our understanding, we believe above functional areas need to be tested.

Test Environments

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

- iPhone Mobile OS – Safari.

Exclusions

- All the features except that are mentioned under “Inclusions”.
- Any Third-party features or payment gateways.
- Test Automation.

Test Strategy

‘Pavan’ has been communicated with ‘openCart’ and has understood that we need to perform Functional Testing of all the functionality mentioned in the above Scope section.

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

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

- We will apply several Test Design techniques while creating Test Cases.
  - Equivalence Class Partition.
  - Boundary Value Analysis.
  - Decision Table Testing.
  - State Transition Testing.
  - Use Case Testing.

- We also use expertise in creating Test Cases by applying the below
  - Error Guessing.
  - Exploratory Testing.

- We Priorities the Test Cases.

Step #2 – Our Testing process, when we get Application for Testing:

- Firstly, we will perform Smoke Testing to check whether the different and important functionality of the application are working.
- We rejected the build, if the Smoke Testing falls 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 Case created.
- Multiple test resources will be testing the Application on Multiple Supported Environments simultaneously.
- We the report the bugs in bug tracking tool and send the defeat found on that day in a status end of the day email.
- As part of the Testing, we will perform the below types of Testing.
  - Smoke Testing and Sanity Testing.
  - Regression Testing and Re-Testing
  - Usability Testing, Functionality and UI Testing.

- We repeat Test Cycles until we get the quality product.

Step3 – We will follow the best practices to make our Testing better:

- Context Driven Testing – We will start be performing Testing as per the context of the given application.
- Shift Left Testing – We will start Testing start from the beginning stages of the development itself, instead of waiting for the stable build.
- Exploratory Testing – Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test cases.
- End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

Defect Reporting Procedure:

During the test execution –

- Any deviation from expected behavior by the application will be noted. If it can't be reported as a defect. It'd be reported as an observation /issue or posed as a question.
- Any usability issues will also be reported.
- After discover 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:

- Defect will be documented in a excel.
- Test scenarios and Test Cases will be documented in an excel document.

Roles/Responsibilities:

Name	Role	Responsibilities
Person A	Test Manager	Escalations

Person B	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 clients. ✚ Attend any meeting with the client.
Person C	Senior Test Engineer	✚ Interact with the application. ✚ Create and execute the test cases. ✚ Report defects.
Person D	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	Start Date to End Date
✓ Test Case Creation	Start Date to End Date
✓ Test Case Execution	Start Date to End Date
✓ Summary Report Submission	Date

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 schedules.	Date
Functional Test Cases	Test Cases created for the scope defined.	Date

Defect Reports	Detailed description of the defects identified along with screenshots and steps to procedure on a daily basis.	NA
Summary Reports	Summary Reports – Bugs by Bugs#, Bugs 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:

- List Requirements are explored and understood by the Testing team.
- Doubts are cleared.

Test Planning

Entry Criteria:

- Testable Requirements derived from the given Requirements Documents or Project details.
- Doubts are cleared.

Exit Criteria:

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

Test Designing

Entry Criteria:

- Test Plan Document is signed-off by the client.

Exit Criteria:

- Test Scenarios and Test Cases Documents are signed-off by the Client.

Test Execution:

Entry Criteria:

- Test Scenarios and Test Cases Documents are signed-off by the Client.
- Application is ready for Testing.

Exit Criteria:

- Test Case Reports, Defect Reports are ready.

Test Closure:

Entry Criteria:

- Test Case Reports, Defect Reports are ready.

Exit Criteria:

- Test summary reports.

Suspension and resumption criteria

Based on the client decision, we will suspend and resume the project.

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

Tools

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

- XYZ Bug Tracking Tools.
- Mind map tool.
- Snipping Screenshot tool.
- Word and Excel documents.

Risk and Mitigations

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

Risk: Non-Availability of a Resource.

Mitigation: Backup Resource Planning.

Risk: Build URL is not working.

Mitigation: Resources will work on the 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 Scenarios.
- Test Cases.
- Reports.

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