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Overview

OpenCart is an open-source e-commerce platform for creating online stores. It offers customizable themes, extensions for added features, scalability from small to large businesses, SEO-friendly design, multi-store management, and a supportive community for assistance.

Scope

The testing will cover the following areas of OpenCart:

Inclusion

- Register
- Login and Logout
- Forget Password
- Search
- Product Compare
- Product Display Page
- Add to Cart
- Wishlist
- Shopping Cart
- Currencies
- Homepage
- Checkout page
- My Account Page
- Order History Page
- Downloads Page
- Contact Us Page
- Menu Options
- Footer Options
- Category Pages

Test Environment

- 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

As 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 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 prioritise the Test Cases

Step#2

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

- Firstly, we will perform Smoke Testing to check whether the different and

important functionalities of the application are working.

- We reject the build, if the 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.
- We then report the bugs in bug tracking tool and send dev. management the defect 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:
 - o Smoke Testing and Sanity Testing
 - o Regression Testing and Retesting
 - o Usability Testing, Functionality & UI Testing
- We repeat Test Cycles until we get the quality product.

Step#3 – We will follow the below 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 – 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 behaviour 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 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 observations.

Note:

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

ROLE	RESPONSIBILITIES
Test Manager	<ul style="list-style-type: none"> • Escalations
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.
Senior Test Engineer	<ul style="list-style-type: none"> • Interact with the application • Create and Execute the Test cases. • Report defects
Test Engineer	<ul style="list-style-type: none"> • Interact with the application • Execute the Test cases. • Report defects

Test Schedule:

Following is the test schedule planned for the project

Task	Time Duration
<ul style="list-style-type: none">• Creating Test Plan• Test Case Creation• Test Case Execution• Summary	Start Date to End Date Start Date to End Date Start Date to End Date Reports Submission Date

Test Deliverables:

The following are to be delivered to the client

Deliverables	Description Target	Completion Date
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Test Plan	Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and Schedule	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 reproduce daily.	NA
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:

- List of 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 resources as per Client needs.

Tools

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

- XYZ Bug Tracking Tool
- Mind map Tool
- Snipping Screenshot Tool
- Word and Excel documents

Risks 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 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.