Test Plan for Opencart

Overview

As part of the project, 'OpenCart' asked Pavan to test a few functionalities of 'http://localhost/opencart/upload/index.php?route=common/home " web application.
This document serves as a high-level test planning document with details on the project's scope, test strategy, test schedule, resource requirements, test deliverables, and schedule.

Scope

The scope of the project includes testing the following features of 'http://localhost/opencart/upload/index.php?route=common/home ' 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
• Contact Us Page
• Menu Options
• Footer Options
• Category Pages
From our understanding, the above functional areas need to be Tested.

Test Environments

• Windows 10 – Chrome, Firefox and Edge

Exclusions

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

Test Strategy
Test Scenarios and Test Cases Creation

- Design test cases using techniques like:
    - Equivalence Class Partitioning
    - Boundary Value Analysis
    - Decision Table Testing
    - State Transition Testing
    - Use Case Testing
- Apply additional methods:
    - Error Guessing
    - Exploratory Testing
- Prioritize test cases.

Testing Process

- Perform **Smoke Testing** on initial builds.
    - Reject unstable builds and wait for a stable version.
- Conduct in-depth testing with test cases after the build passes Smoke Testing.
- Test the application in multiple environments simultaneously.
- Report bugs in a tracking tool and provide daily status updates.
- Types of testing performed:
    - Smoke and Sanity Testing
    - Regression and Retesting
    - Usability, Functionality, and UI Testing
- Repeat test cycles until the product meets quality standards.

Best Practices

- **Context-Driven Testing**: Test based on the specific application context.
- **Shift Left Testing**: Begin testing early in the development process.
- **Exploratory Testing**: Leverage expertise for additional insights beyond test cases.

Defect Reporting

1. **Noting Deviations:**
    - Record any behavior that doesn't match expectations.
    - Report as a defect, observation, issue, or question if needed.
2. **Usability Issues:**

    - Highlight and report usability concerns.
3. **Defect Verification:**
    - Retest the defect to confirm it is reproducible.
    - Document steps to reproduce with screenshots.

4. **Daily Reporting:**

      ○ Share all defects and observations at the end of each testing day.

Test Schedule

Task	Start Date	End Date	Time Duration
Creating Test Plan	2 March 2025	3 March 2025	2 Days
Test Case Creation	3 March 2025	5 March 2025	3 Days
Test Case Execution	5 March 2025	6 March 2025	2 Days
Summary Reports Submission	7 March 2025	7 March 2025	1 Day

Entry and Exit Criteria

Phase	Entry Criteria	Exit Criteria
Requirement Analysis	- Receipt of Requirements Documents or project details by the testing team.	- Requirements are thoroughly explored and understood.
		- All doubts are clarified.
Test Planning	- Testable requirements derived from the Requirements Documents or project details.	- Test Plan document (including Test Strategy) is signed-off by the client.
	- All doubts are clarified.	
Test Designing	- Test Plan document is signed-off by the client.	- Test Scenarios and Test Cases documents are signed-off by the client.
Test Execution	- Test Scenarios and Test Cases documents are signed-off by the client.	- Test Case Reports and Defect Reports are completed.
	- Application is ready for testing.	
Test Closure	- Test Case Reports and Defect Reports are completed.	- Test Summary Reports are prepared.

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:

- **Bugzilla Bug Tracking Tool**
- **Mind map Tool(Xmind)**
- **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's needs dynamically

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.