Test Plan Document for OpenCart

Made by Hafsa Suleman.

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1. Introduction:

This test plan is for the E-Commerce Application OpenCart, version 1.0. The objective of this testing is to ensure that the application meets the requirements and is free defects. This document serves high level test planning document with details on the scope of the project, test strategy, test schedule resource requirements and test deliverables.

2. Test Items:

E-Commerce Application OpenCart, version **4.1.0.0**

3. Features to be tested:

- Register

- Login & Logout

- Forget 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

4. Features to be tested:

Feature not mentioned in section 3, will not be tested like:

- Payment Gateway will not be tested

- Automation testing is not in scope.

5. Test Environment:

- Operating System, window 10

- Browser: Google Chrome, Firefox, Edge

6. Tools:

- Bug Tracking Tool

- Microsoft Word for Test Planning Document

- Microsoft Excel For Test Cases.

7. Test Schedule

Test Name	Start Date	Finish Date	Done By	Estimated Time
FRS	Dec 20	Dec 25	Hafsa Suleman	3 days
Test Planning	Dec 26	Dec 30	Hafsa Suleman	3 days
Test Case Development	Dec 31	Jan 05	Hafsa Suleman	7 days
Test Execution	Jan 06	Jan 20	Hafsa Suleman	15 days
Closure	Jan 21	Jan 25	Hafsa Suleman	7 days

8. Test Responsibilities:

Name	Role	Responsibilities
Hafsa Suleman	Test Analyst	Define functional requirements and specifications, gather stakeholder input, ensure compliance with business needs
Hafsa Suleman	Test Manager	Develop test strategy, scope, and objectives, identify test environment and resources, define risk assessment
Hafsa Suleman	Test Engineer	Create and document detailed test cases, map test cases to requirements, review and validate test cases
Hafsa Suleman	QA Tester	Execute test cases, report defects, track and verify bug fixes, log results, perform regression testing
Hafsa Suleman	Test Lead	Finalize testing, create test summary report, conduct retrospective review, ensure all defects are resolved.

9. Test approach/Strategy:

Manual testing will be used to test all the features/functionalities of the OpenCart application. As a part of functional testing, the following approach will be followed.

Step#1-Creation of Test Scenarios and Test Cases for the different features in scope (Refer section 3. Features to be tested).

- 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 Prioritize 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 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 Cases created.

- Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.

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- We then report the bugs in bug tracking tool and send dev, management the defect found on that day in a status at the end of the day by email

- As part of the Testing, we will perform the following types of Testing:

  ➢ Smoke Testing and Sanity Testing

  ➢ Regression Testing and Retesting

  ➢ Usability Testing, Functionality & Ul Testing

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.

10.   Defect Reporting Procedure:

During the test execution:

- Any deviation from expected behavior/result by the application will be noted. If it can't be reported as a defect, it would 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 Scenario and test cases will be documented in excel documents.

11.   Entry and exit Criteria.

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 (including 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:

- Analyze the summary test report.

12. Test Completion Criteria:

- All the identified defects must be fixed and verified
- All the test cases must be executed and passed.
- All the test deliverables must the completed and submitted.

13. Risks and mitigation:

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

1. **Risk**: Non-Availability of a Resource

   Mitigation Plan for backup resource

2. Risk: Build URL is not working

Mitigation Resources will work on other tasks

14. Approval:

- Test Plan

- Test Scenario

- Test Cases

- Reports

15. Test Deliverables:

- Test cases

- Test reports

- Defect Report