**Test Plan Document for OpenCart project**

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1. **Introducti3**
2. **on:-**

This test plan is for E- Commerce Application

OpenCart, Version 1.0. The objective of this testing is to ensure that the application meets the requirements and is free of defects . This document serves as high level test planning document with details on the scope of the project , test strategy , test Schedule, resources requirements and test deliverables.

1. **Test Items:-**

* E-commerce Application: OpenCart, Version xx.

1. **Features to be tested:-**

* Register page
* 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
* Menu options
* Footer option
* Category pages

As per our understanding. We believes above functional area need to be test

1. **Feature Not to be tested:-**

* Features not mention in section 3, “Feature to be tested” will not be tested.
* Payment Gateway will be tested.
* Automation testing is not in scope.

1. **Test Environment:-**

* Operating System: Window 10.
* Browser : Google Chrome , Firefox , Edge.

1. **Tools:**

Following tools will be used in this project

* Bug Tracking Tool
* Word and Excel Documents

1. **Test Schedule:-**

**Test planning :** Start Date (dd/mm/yy) – End Date (dd/mm/yy).

**Test Case Development :** Start Date (dd/mm/yy) – End Date (dd/mm/yy).

**Test Execution :** Start Date (dd/mm/yy) – End Date (dd/mm/yy).

**Test Closure :** Date

1. **Test Responsibilities:-**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibilities** |
| Mr. ------ | Test Manager | Escalations |
| Ms. ------ | Test Lead | * Create 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 issue update being reported. * Submit daily issue updates and summary defect report to be client * Attend any meeting with client. |
|  | Senior Test Engineer | * Interact with the application * Create and Execute the Test Cases. * Report Defects |
|  | Test Engineer | * Interact with application. * Execute the Test Cases. * Report defects. |
|  | Developer | * Bug fixing and providing support during testing |
|  | Sever Admin | * Responsible for maintaining the test Environment |

1. **Test Approach/Strategy:-**

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

**Step#1 –** Creation of the 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 Vale 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 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 Support Environment 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 email.
* As part of the Testing , we will perform the below types of Testing :
* Smoke Testing and Sanity Testing
* Regression Testing and Retesting
* Usability Testing , Functional & UI Testing
* We repeat Test Cycle 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

1. **Defect Reporting Procedure:**

During the test execution –

* Any deviation from expected behavior/result by the application will be noted . if it cant 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 reproduces 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 excel
* Test Scenario and Test Cases will be documented in an excel document

1. **Entry and Exit Criteria of the STLC Phases:-**

|  |  |  |
| --- | --- | --- |
| **STLC Phases** | **Entry** | **Exit** |
| Requirement Analysis | Once the testing team receives requirements document or details about the project | List of requirement are explored and understood by the Testing Team  All doubts are cleared |
| Test Planning | Testable Requirements derived from the given Requirement document or project details  Doubts are cleated | Test plan document signed off by the client |
| Test Design | Test plan document signed off by the client | Test Scenario and Test Cases Document are Signed- off by the client |
| Test Execution | Test Scenario and Test Cases Document are signed -off by the Client Application is ready for Testing | Test Case Report and Defect Report are ready |
| Test Closure | Test Cases Report, Defect Report are ready | Test Cloure Report |

1. **Test Completion Criteria**

* All the identified defects must be fixed and verified
* All the Test Cases must be execute and passed
* All the test deliverables must be completed and submitted
* Performance Test should pass threshold limit.

1. **Risk and Mitigations**

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

1. **Risk:-** Non- Availability of Resources

**Mitigation :-** Plan for backup resources

1. **Risk:-** Build URL is not working

**Mitigation :-** Resources will work on other task

1. **Approvals**

Following document needs clients approval

* Test plan
* Test Scenario
* Test Cases
* Reports

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

1. **Test Deliverables**

* Test Cases
* Test Report
* Defect Report