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**TEST PLAN**

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**TEAM MEMBERS**

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| --- | --- |
| **ROLE** | **NAME** |
| Project Manager | Rajesh Varma |
| Development Team | Rahul  Mohit  Shreyash |
| QA Team | Shefali Saroj  Amit Sharma  Varun Patel |

**DOCUMENT LOG**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name** | **Designation** | **Version No** | **Date** |
| **Created By** | Shefali Saroj | QA | Version 1.0 | 15-Jan-2024 |
| **Reviewed By** | Amit Sharma | QA Lead | Version 1.0 | 16-Jan-2024 |

**OBJECTIVE**

OpenCart, a free and open-source e-commerce platform, serves as a foundational tool for individuals ranging from web developers to shop owners aiming to establish their online presence. Focused on the frontend in this test plan, the following essential features will be assessed.

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

**PURPOSE OF TEST PLAN**

The OpenCart test plan ensures a methodical approach to validate the e-commerce platform's functionality, performance, and security. It outlines testing goals, scope, and methods to identify and address issues, ensuring the delivery of a reliable and high-quality system that meets user expectations.

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**SCOPE**

The Scope of the project includes testing the following features of OpenCart Web Application.

* Registration Page
* Login Page
* Logout Page
* Forgot Password
* Search
* Product Compare
* Product Display Page
* Add to Cart
* Wish List
* Shopping Cart Page
* Currencies
* Home Page
* Checkout Page
* My Account Page
* Order History Page
* Downloads Page
* Contact Us Page
* Menu Options
* Footer Options
* Category Page

**QA Resources Allocated**

* Shefali Saroj
* Amit Sharma

**QA Backup Resources**

* Varun Patel

**Out of Scope**

* + Test automation.
  + All the features that does not mentioned in scope.
  + Any Third-Party Application or Third-Party Payment Gateways.

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**TEST ENVIRONMENTS**

The following test environments will be used:

1. Operating System: Window 11.
2. Browser: Google Chrome.
3. Device: Laptop or Computer.
4. Network connectivity: Wi-fi cellular.

**TEST STRATEGY**

As communicated with our team and has understood that we need to perform Functional Testing for all the functionalities which are mentioned in the scope.

As part of Functional Testing, we are going to follow the below approach for testing this project:

**Step 1**: Create Test Scenarios and Test Cases for the different functionalities that are in Scope.

* While developing Test Scenarios and Test Cases, we'll use a number of test design techniques.
* Equivalence Class Partition
* Boundary Value Analysis
* Decision Table Testing
* State Transition Testing
* Use Case Testing
* We also use our expertise in creating Test Scenarios and Test Cases by applying the below:
* Error Guessing
* Exploratory Testing
* We will prioritise the Test Case

**Step 2**: Our testing procedure when we receive a request for testing:

* First, we'll conduct smoke testing to see if the various and different functionalities of the application are working a high level.
* We will reject the build, if the Smoke Testing fails and will wait for the stable build

before performing in depth testing of the application functionalities.

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* Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the above created Test Cases.
* Multiple Test Resources will be testing the same Application on Multiple Supported Test Environments simultaneously.
* We then report the bugs in bug tracking tool and send you the defect found on that day in a status email at the end of the day.
* As part of the Testing, we will perform the below types of Testing:
* Smoke Testing and Sanity Testing
* Regression Testing and Retesting
* Usability Testing, Functionality & UI Testing
* We repeat Test Cycles until we get the quality product.

**Step3**: 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
* 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.

**TEST SCHEDULE**

Following is the test schedule planned for the project –

**Task Time Duration**

|  |  |
| --- | --- |
| **TASK** | **DATE** |
| Creating Test Plan | 13 Jan 2024 to 15 Jan 2024 |
| Test Scenarios and Test Case Creation | 16 Jan 2024 to 26 Jan 2024 |
| Test Case Execution | 27 Jan 2024 to 27 Feb 2024 |
| Summary Reports Submission  Date | 28 Jan 2024 |

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**TESTING**

* QA will develop test scenarios.
* QA will develop test cases based on the test scenarios.
* QA will execute test cases.

**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. Screenshot 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 word document.
* Test cases will be documented is an excel document.

**Fixing**

Developer will fix the assigned bug and assign it to QA.

**Verification**

QA will verify the fix on assigned bugs

**Not Fixed**

If bug is not fixed QA will re-assign the bug to the developer.

**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 requirement, test deliverables and schedule. | 14 Jan 2024 |
| Functional Test Cases | Test Cases created for the scope defined. | Jan 25 2024 |
| Defect Reports | Detailed description of the defects identified along with screenshots and steps to reproduce on the daily basis. | NA |
| Summary Reports | Summary Reports-  Bugs by Bugs,  Bugs by Functional Area,  Bugs by Priority. | 28 Feb 2024 |

**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 Requirement 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 Document 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

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**TEST CLOSURE**

* **Entry Criteria**

Test Case Reports, Defect Reports are ready

* **Exit Criteria:**

Test Summary Reports

**TOOLS**

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

* + - JIRA 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