TEST PLAN

**Product Name : Open Cart ( frontend )**

**Prepared By : Priyanka**

**Date 20/2/2024.**

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**OVERVIEW :**

As the part of the project “Open Cart ” asked Priyanka to test few functionality of ‘https://demo.opencart.com/” web application.

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

**SCOPE :**

The scope of the project includes testing the following features of ‘https://demo.opencart.com/” web application.

**INCLUSIONS :**

-Register

-Login And Logout

-Forget Password

-Search

-Product Display Page

-Add To Cart

-Wish List

-Shopping Card

-Currencies

-Home Page

-Checkout

-My Account Page

-Order History Page

-Downloads page

-Contact Us Page

-Menu Options

-Footer Options

-Category Pages

**EXCLUSIONS :**

-All the features except that are mentioned under “Inclusions”.

-Test Automation

-Payment Gateways.

**TEST ENVIRONMENTS:**

Windows 10 Pro - Chrome , Firefox , Edge.

Android mobile OS – Chrome.

**TEST STRATEGY:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Component** | **Description** | | Objective | List the overall goals and objectives of the testing process. | | Test Levels | Specify the testing level (unit ,integration , system, Acceptance ,regression)  And their purposes and scopes. | | Test Techniques | Detail the testing techniques to be used for each test type ( black box, white box, grey box) and whether manual ,automated or combination of both approaches will be employed. | | Test Deliverables | List the artifacts to be produced during the testing process (test plan, cases, reports) | | Test Environments | Describe the browsers, devices , Operating System for Testing | | Test Schedule | Provide An Estimate Of the time needed for each testing phase ,taking out into account resource availability, dependencies , project deadliness . | | Resource Allocation | Identify team member responsible for different testing tasks and outline their roles and responsibilities. | | Risk Management | List Potential risks and Challenges that may arise during the testing process , along with contingency plans to address them. | | Test Exit Criteria | Define the criteria that must be met before testing can be considered complete , such as a specific percentage for test cases executed , a certain level of test coverage or a maxi number of unresolved defect | |

The first step is to create test scenarios and test cases for various features in scope .

While developing test cases , we will 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 Cases by applying the below:

**- Error Guessing**

**- Exploratory Testing**

**-We prioritize the Test Cases**

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

• First, we'll conduct smoke testing to see if the various 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:

**- 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, 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 PROCESSING REPORTER:**

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.

**TEST SCHEDULE :**

Following is the test schedule planned for the project –

|  |  |  |
| --- | --- | --- |
|  | Task | Time Duration |
| ▪ | Creating Test Plan | Start Date to End Date |
| ▪ | Test Case Creation | Start Date to End Date |
| ▪ | Test Case Execution | Start Date to End Date |
| ▪ | Summary Reports Submission | Date |

**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 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 on a daily basis. | 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.