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Software test plan

Project: OpenCart

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# Overview

As part of the project, I will test some of the functionalities of **OpenCart** web application

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

# Scope

The scope of the project includes testing the following features of the OpenCart web application:

## Inclusions

* Home Page
* Register
* Login & Logout
* Forgot Password
* Search
* My Account
* Add to Cart
* Shopping Cart Page
* Product Display Page
* Checkout
* Header & Footer

From my understanding I believe these features represent the core of the application and should be tested.

## Exclusions

* My Orders
* Wish List
* Currencies
* Category Pages

Due to time constraints and a team size of 1, all features above as well as ones not mentioned in Inclusions will not be tested

## Test Environments

* Windows 10 + Chrome

# Test Strategy

As part of functional testing, I am going to follow the below approach for this project:

Step #1 – Creation of Test Scenarios and Test Cases for the different features in scope.

* I will apply several Test Designing techniques while creating the test case
  + Equivalence Class Partition
  + Boundary Value Analysis
  + Decision Table Testing
  + State Transition Testing
  + Use Case Testing
* I will also use my expertise in creating Test Cases by applying the below:
  + Error Guessing
  + Exploratory Testing
* I will the prioritize Test Cases based on their importance

Step #2 – My Testing process, when I get the application for Testing:

* Firstly, I will perform Smoke Testing to check the different and important functionalities of the application are working at a high level.
* I 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.
* Once I receive a stable build, which passes Smoke Testing, I will perform in-depth testing using the Test Cases created.
* I will then report the bugs in the “Jira” bug tracking tool and send you the defect found on that day in a status-update end of the day email (I have no client in this project but that’s what I would do).
* If applicable, I will repeat the Test Cycles until we get a quality product.

Step #3 – I will follow the below test practices to make my testing better:

* Context Driven Testing – I will perform the testing based on the context of the Project.
* Shift Left Testing – I will perform testing from the development stages of the Project.
* Exploratory Testing – Using my Expertise I will perform Exploratory Testing, apart from the normal execution of the Test Cases.
* End to End Flow Testing – I will test the end-to-end scenarios which involve multiple functionalities to simulate end-user flows.

# Problem Tracking and Test Tracking Procedures

**Defect reporting procedure:**

During the test execution –

* Any deviation from the expected behaviour by the application will be noted. If it can’t be noted 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. (No real client but this is what I’d do if I had a real client)
* Bug Report Title will adhere to the following syntax: Bug ID – Environment – Affected Features - Description

Note:

* Defects will be documented in Jira.
* Test Scenarios and Test Cases will be documented in an excel document.

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Kamil Khalaileh | QA Engineer | * Create the 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 defects being reported * Submit daily issue updates and summary reports * Attend any meetings with the client |

# Test Schedule

The following is the test schedule planned for the project –

|  |  |
| --- | --- |
| **Task** | **Time Duration** |
| Test Plan Creation | 28/05/2023 – 30/05/2023 |
| Test Scenarios and Test Case Creation | 31/05/2023 – 03/06/2023 |
| Test Case Execution  Summary Reports Submission | 03/06/2023 – 04/06/2023 |

# Test Deliverables

The following are to be delivered to the client:

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **Description** | **Target Completion Date** |
| Test Plan | Details on the scope of the Project, test schedule, resource requirements, test deliverables and schedule | 30/05/2023 |
| Test Cases | Test Cases created for the scope defined | 03/06/2023 |
| Bug Reports | Detailed bug reports of the bugs identified along with screenshots and steps to reproduce | 04/06/2023 |
| Summary Report | Summary report ( STR ) –  Bugs by test cases  Bugs by functional area  Bugs by priority | 04/06/2023 |

# Entry & Exit Criteria

**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 are derived from the given requirements document or project details
* Doubts are cleared

Exit Criteria:

* Test Plan document 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 and Bug Reports are ready

**Test Closure**

Entry Criteria:

* Test Case Reports and Bug Reports are ready

Exit Criteria:

* Test Summary Report

# Suspension and Resumption Criteria

Based on the Client decision, I will suspend and resume the Project.

I will ramp up and ramp down the resources as per Client needs.

# Tools

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

* Jira Bug Tracking Tool
* Mind Mapping Tool
* LightShot Screenshot Tool
* BandiCam Screen Recorder
* Word and Excel Documents

# Approvals

I will send different types of documents to the client:

* Test Plan
* Test Scenarios
* Test Cases
* Test Report

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