# **Test Plan (https://opensource-demo.orangehrmlive.com)**

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## Objective

The objective of this test plan is to ensure the OrangeHRM application meets all functional requirements, provides a user-friendly experience, and maintains data security through automation testing.

* PHP 5.4
* jQuery 2.1.1
* JavaScript
* Database (MySQL suggested)
* Web Server (Apache suggested)

## Scope

The scope of the project includes testing the following features of ‘https://opensource-demo.orangehrmlive.com’ web application.

### Inclusions

* Login functionality
* Forgot Password functionality
* My Info > Personal Details functionality
* My Info > Profile Picture functionality
* My Info > Contact Details functionality
* My Info > Emergency Contacts functionality
* My Info > Dependents functionality

From our understanding, we believe above functional areas need to be Tested.

### Test Environments

* Windows 11 – Chrome, Firefox and Edge
* Linux - Chrome, Firefox and Edge

### Exclusions

* Any features or functionalities not explicitly mentioned in the "Inclusions" section are excluded from this automation testing.

## Test Strategy

The testing team will follow the below approach for automation testing:

* Create automated test scripts for each of the identified scenarios using appropriate test design techniques.
* Execute automated test scripts on various supported environments and browsers.
* Perform smoke testing to ensure basic functionality is working.
* Report defects for any deviations from expected behavior.
* Perform regression testing as needed.
* Verify the working of the specified functionalities with automation scripts.
* Continuously monitor and update automated test scripts as needed.
* Follow best practices such as shift-left testing, exploratory testing, and end-to-end flow testing to enhance test coverage.

## 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. 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.

## Roles and Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Person A | Test Manager | * Escalations |
| Person B | Test Lead | * 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 defect reports to the client. * Attend any meeting with client. |
| Person C | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |
| Person D | Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |

## Test Schedule

Following is the test schedule planned for the project

|  |  |
| --- | --- |
| Task | Time Duration |
| Create Test Plan | 29-08-2023 |
| Test Case Creation | 29-08-2023 to 31-08-2023 |
| Test Case Execution | 01-09-2023 |
| Report Submission | 04-09-2023 |

## Test Deliverables

The following are to be delivered to the client:

|  |  |  |
| --- | --- | --- |
| Deliverables | Description | Date |
| Test Plan | Details on the scope of the Project, test strategy, test schedule and test deliverables | 29-08-2023 |
| Functional Test Cases | Test Cases created for the scope defined | 31-08-2023 |
| Defect Reports | Detailed description of the defects identified along with steps to reproduce on a daily basis. | - |
| Summary Report | Summary Reports -  Bugs by Bug  Bugs by Functional Area and  Bugs by Priority | 04-09-2023 |

## 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 tools will be used for automation testing:

* Automation Testing Framework (e.g., Selenium)
* Test Management Tool (e.g., Zephyr Scale)
* Version Control System
* Integrated Development Environment (IDE)
* Cucumber (for Behavior-Driven Development)

## 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.