**TEST PLAN – OrangeHRM**

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# INTRODUCTION

This test plan covers the functional, GUI testing for the **OrangeHRM modules**, ensuring users can log in using valid credentials and appropriate error messages appear for invalid actions and other modules includes leave management, time, employee details etc.

The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

# TEST STRATEGY

## Scope of Testing

### Feature to be tested

All the feature of OrangeHRM Bank which were defined in software requirement specifications are need to bested.

|  |  |  |  |
| --- | --- | --- | --- |
| **Module Name** | **Applicable Roles** | | **Description** |
| **Leave** | | Admin  Employee | **Admin:** An admin can approve employee leave as well as set how many leave should be available for the individual employee account.  **Employee:** An employee can apply leave request as well as check pending leave details as well as leave approve status. |
| **Time** | | Admin  Employee | **Admin:** An admin can set the working hours of the individual employee as well check hourly based work report of the employees.  **Employee:** An employee can update and see allotted work time by using this module. |
| **My Info** | | Employee | **Employee:** An employee can add/update all the details includes personal details, salary details, job, immigration, qualification and membership. |
| **Claim Section** | | Employee  Admin | **Employee:** An employee can see all the details related to their claim as well update it.  **Admin:** An admin can check claim details and approve/reject it. |
| **Admin** | | Admin | **Admin:** An admin can manage all the details related to employee. |
| **PIM** | | Employee | **Employee:** User can add employee as well update all the details. |

### Feature not to be tested

These features are not be tested because they are not included in the software requirement specs

* + - * User Interfaces
      * Hardware Interfaces
      * Software Interfaces
      * Database logical
      * Communications Interfaces
      * Website Security and Performance

## Test Type

In the project functional testing should be conducted.

* Integration Testing (Individual software modules are combined and tested as a group)
* Unit Testing (if in scope)
* GUI Testing
* Regression Testing
* Smoke Testing
* Sanity Testing
* Acceptance Testing

## Risk and Issues

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Team member lacks the required skills for website testing. | Plan **training course** to skill up your members |
| The project schedule is too tight; it's hard to complete this project on time | Set **Test Priority** for each of the test activity. |
| Test Manager has poor management skill | Plan leadership training for manager |
| Test data unavailability | Synthetic Data Generation |
| Last -minute requirement changes | Focus on clear communication & do impact assessment |
| Incomplete Documentation | Define the Problem & gather missing information, establishing clear documentation protocols |

## Test Logistics

### Who will test?

The project should use QA **team members** as the tester to save the project cost

### When will test occur?

The tester will start the test execution when all the following inputs are ready

* + - * Software is available for testing
      * Test Specification is created
      * Test Environment is built
      * Enough human resource for testing

# TEST OBJECTIVE

The test objectives are to **verify** the Functionality of website Orange HRM, the project should focus on testing the **OrangeHRM** such as Employee Management, leave, time, PIM, claim management…etc. to **guarantee** all these operations can work **normally** in real business environment.

# TEST CRITERIA

## Suspension Criteria

If the team members report that there are **40%** of test cases **failed**, suspend testing until the development team fixes all the failed cases.

## Exit Criteria

Specifies the criteria that denote a **successful** completion of a test phase

* **Run** rate is mandatory to be **100%** unless a clear reason is given.
* **Pass** rate is **80%,** achieving the pass rate is **mandatory**.

## RESOURCE PLANNING

## System Resource

|  |  |  |
| --- | --- | --- |
| **No.** | **Resources** | **Descriptions** |
| 1 | Server | Need a Database server which install MySQL server Web server which install Apache Server |
| 2 | Test tool | Develop a Test tool which can auto generate the test result to the pre- defined form and automated test execution |
| 3 | Network | Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s |
| 4 | Computer | At least 4 computer run Windows 10/11, Ram 2GB, CPU 3.4GHZ |
| 5 | Browsers | Google chrome, Microsoft Edge, Firefox, Safari |

## Human Resource

|  |  |  |
| --- | --- | --- |
| **No.** | **Member** | **Tasks** |
| **1.** | Test Manager | Manage the whole project Define project directions  Acquire appropriate resources |
| **2.** | Test | Identifying and describing appropriate test techniques/tools/automation architecture  Verify and assess the Test Approach  Execute the tests, Log results, Report the defects. Outsourced members |
| **3.** | Developer in Test | Implement the test cases, test program, test suite etc. |
| **4.** | Test Administrator | Builds up and ensures test environment and assets are managed and maintained  Support Tester to use the test environment for test execution |
| **5.** | SQA members | Take in charge of quality assurance  Check to confirm whether the testing process is meeting specified requirements |

# TEST ENVIRONMENT

The Test Environment should be setup as below,

**Tester PC >> Test Server (Apache + MySQL) >> Application Under Test**

# SCHEDULE & ESTIMATION

All project Task and Estimation

|  |  |  |
| --- | --- | --- |
| **Task** | **Members** | **Estimate effort** |
| **Create the test specification** | Test Designer | 170 man-hours |
| **Perform Test Execution** | Tester, Test Administrator | 80 man-hours |
| **Test Report** | Tester | 10 man-hours |
| **Test Delivery** |  | 20 man-hours |
| **Total** |  | 280 man-hours |

# TEST DELIVERABLES

Test deliverables are provided as below

## Before testing phase

* Test plans document.
* Test cases documents
* Test Design specifications.

## During the testing

* Test Tool
* Simulators.
* Test Data
* Test Trace-ability Matrix
* Error logs and execution logs.

## After the testing cycles is over

* **Test Results/reports**
* Defect Report
* Installation/ Test procedures guidelines
* **Release notes**