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**