

Test Plan for OrangeHRM

Test Plan Details

Test Plan ID	TP-OHRM-01
Test Plan Name	Test Plan for OrangeHRM Application
Version	1.0
Date	11/20/2024
Author	Yahya Mirza

Objective

The objective of this test plan is to outline the testing approach and ensure that the major modules of OrangeHRM application meets all functional and non-functional requirements. The plan focuses on identifying defects and validating that the software operates as expected.

Scope

This test plan covers the following major modules of the OrangeHRM application:

- **Login Module:** Authentication, security, and error handling.
- **Admin Module:** User roles, organizational structure, and data management.
- **Leave Module:** Leave applications, approvals, and balance validations.
- **PIM Module:** Employee management, including adding, editing, and deleting records.

Test Strategy

The following testing approaches will be used:

- **Functional Testing:** Validate core functionalities for each module.
- **Boundary Testing:** Test limits for fields like phone numbers, leave balance, etc.
- **Negative Testing:** Evaluate system behavior with invalid inputs.
- **Cross-Browser Testing:** Test compatibility with Chrome, Firefox, and Edge.

- **Performance Testing:** Assess the application's performance under load.
- **Security Testing:** Check for vulnerabilities like SQL injection and XSS.

Test Criteria

Entry Criteria

- Development of individual modules is complete.
- Test environment is stable and ready.
- Test cases are prepared and reviewed.

Exit Criteria

- All critical and high-severity bugs are resolved.
- Test case execution is 95% complete.
- All functional and non-functional requirements are met.

Test Deliverables

The following documents will be produced:

- Test Cases
- Bug Reports

Testing Schedule

Task	Start Date	End Date	Responsible
Test Case Preparation	11/21/2024	11/23/2024	Yahya Mirza
Test Execution	11/24/2024	11/25/2024	Yahya Mirza
Bug Reporting	11/25/2024	11/25/2024	Yahya Mirza
Retesting and Regression	11/26/2024	11/28/2024	Yahya Mirza

Resource Requirements

- **Hardware:** Windows 10 OS, 16GB RAM, Intel Core i5 processor or higher.
- **Software:** Browsers (Chrome, Firefox, Edge), Excel for documentation.
- **Personnel:** Manual Testers, Supervisor/Reviewer.
- **Jira:** Used for bug tracking and reporting. Each test case was linked to corresponding bugs when applicable.
- **TestRail:** Used for managing test cases and logging test results. Test runs were created for different modules.

Risk Analysis

- **Risk:** High number of defects in the Admin module due to complex workflows.
Mitigation: Prioritize testing for the Admin module.
- **Risk:** Limited time for regression testing.
Mitigation: Use smoke testing to identify critical issues early.

Assumptions

- Test environment will remain stable throughout the testing phase.
- All requirements are clearly defined and understood.
- Testing team will have access to updated builds of the application.

Dependencies

- Availability of stable test environments and test data.
- Timely resolution of reported bugs by the development team.
- Access to the latest OrangeHRM build for testing.

Approval

Role	Name	Signature	Date
Test Lead	Yahya Mirza	ym	11/30/2024