**MASAI**

**TEST PLAN**

**Project Name: Orange HRM Web Application**



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**Introduction**

The aim of this document is to give an overview of the testing approach, strategies and scope for the vision script web application. This document includes details like scope of the project, objective, test schedule, resource allocation, test deliveries and reports.

The primary goal of this test plan is to identify potential defects, ensure the application meets all functional and non-functional requirements, and verify that it delivers the expected user experience across various platforms and devices. The testing will cover multiple aspects such as user interface (UI) design, functionality, performance, security, usability, and compatibility.

By following this structured test plan, the testing team can systematically detect and resolve issues early in the development cycle, ensuring the delivery of a robust, high-quality web application that meets user expectations.

AUT: https://opensource-demo.orangehrmlive.com/web/index.php/auth/login

**Objectives**

**Objective of the Test Plan for Orange HRM –** Employee Data Management Module

1. **Feature Validation:** Ensure that all functionalities related to adding, modifying, retrieving, and deleting employee records operate accurately and without errors.
2. **Data Integrity:** Verify that data remains intact during all operations, such as updates and deletions, to prevent any loss or corruption of employee information.
3. **Security Compliance:** Confirm that the module adheres to industry-standard security protocols, protecting sensitive employee data from unauthorized access and breaches.
4. **Data Privacy:** Ensure compliance with data privacy regulations (e.g., GDPR, CCPA) to safeguard personal and sensitive information stored within the system.
5. **Performance Testing:** Assess the system's responsiveness and stability under different load conditions to ensure consistent performance during peak usage times.
6. **Usability Assessment**: Evaluate the user interface to verify it is user-friendly, providing an intuitive experience that facilitates quick and easy navigation for HR staff.
7. **Compatibility Testing:** Confirm that the module is compatible with various web browsers, operating systems, and devices, ensuring consistent functionality across different environments.
8. **Integration Verification:** Test the module's ability to seamlessly integrate with other components of the orange HRM system, such as payroll, leave management, and reporting tools.
9. **Error Handling and Alerts:** Verify that appropriate error messages and alerts are displayed for invalid operations or system errors, ensuring clarity for the end user.
10. **Accessibility Compliance:** Ensure the module adheres to accessibility standards (e.g., WCAG) to make it usable for individuals with disabilities.
11. **Audit and Logging:** Confirm that the system maintains comprehensive logs and audit trails for all changes made to employee data, supporting traceability and accountability.
12. **Backup and Recovery:** Test the module's data backup and recovery mechanisms to ensure employee data can be restored in case of system failure or data loss.

This plan aims to ensure a secure, reliable, and user-centric solution for efficient employee data management.

**Scope**

The scope of this test plan covers the end-to-end testing of the orange HRM web application, ensuring its functionality, performance, security, and usability. This includes testing the core features, integration points, and compatibility with different environments and devices.

**Testable Features:**

1. Login
2. Apply
3. My Leave
4. Entitlements
5. Reports
6. Configure
7. Leave List
8. Search
9. Admin
10. Leave
11. Time
12. Recruitment
13. My Info
14. Performance
15. Dashboard
16. Directory
17. Maintenance
18. Claim
19. Buzz
20. PIM
21. Assign
22. Upgrade
23. Profile

**Testing Approach**

* Testing Types
* Functional Testing
* UI/UX Testing
* Non-functional Testing
* Testing Methodologies
* Black Box Testing
* White box Testing
* Regression testing
* User Acceptance Testing (UAT)
* Testing Environment
* UAT
* Pre-Production
* QA Environment
* Production Environment
* **Operating System**
* Windows 12
* Browser: [ Google Chrome and Microsoft Bing]
* Testing tools: cypress

**Roles and Responsibilities**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibilities** |
| Gyana prakash Khandual | Test Lead | * Develop test plans and strategies in alignment with project objectives and requirements. * Assign task, set priorities and provide support to team members. * Revies test result and provide feedback to team members. * Monitor and manage risks throughout testing life cycle. |
| Gyana prakash Khandual | Testing Engineer | * Understand the customer requirements. * Write the test scenarios and test cases. * Execute the test cases * Performing root cause analysis to identify underlying issues. * Defect tracking and reporting. |

**Test Schedule**

Below table is containing the dates of the various testing process of the project.

|  |  |
| --- | --- |
| **Task** | **Time Duration** |
| Test Plan Creation | Nov 15. 2024 |
| Test Scenario Creation | Nov 15. 2024 |
| Test case creation | Nov 15. 2024 |
| Test case Execution | Nov 15. 2024 |
| Bug report submission | Nov 15. 2024 |
| Test summary report submission | Nov 15. 2024 |

**Test Deliveries**

The following are to delivered to the client

|  |  |  |  |
| --- | --- | --- | --- |
| **Deliverables** | **Description** | **Responsible Owner** | **Target Completion Date** |
| Test Plan | Outlines of the testing approach strategies and scope for the web application. | Masai | Nov 16. 2024 |
| Test Cases | Test case created for both functional testing and non-functional testing including UI/IX testing | Masai | Nov 16. 2024 |
| Bug Report | Detailed description of the bugs identifies in different features of the application | Masai | Nov 17. 2024 |

**Entry and Exit criteria for Requirement analysis**

**Entry Criteria:**

1. **Business Requirements Document Available**: High-level business and functional requirements are documented and available for review.
2. **Stakeholders Identified**: Key stakeholders and subject matter experts (SMEs) are identified and available for clarification and discussions.
3. **Initial Project Scope Defined**: The overall project scope and objectives are clear and agreed upon by the stakeholders.

**Exit Criteria:**

1. **Detailed Requirement Specification Created**: Functional and non-functional requirements are clearly documented, reviewed, and approved by all stakeholders.
2. **Requirements Feasibility Assessed**: A feasibility analysis for the requirements has been performed, ensuring they are achievable within the project constraints.
3. **Requirement Traceability Matrix Prepared**: The requirement traceability matrix (RTM) is created to ensure that all requirements are traceable through the project lifecycle

**Entry and Exit Criteria for test planning**

**Entry Criteria:**

1. **Requirements Documentation Finalized**: Functional and non-functional requirements are clearly defined and approved.
2. **Test Environment Ready**: Test environment is set up and verified to support testing activities.
3. **Test Cases Prepared**: Test cases, test scripts, and other necessary test data are ready and reviewed.

**Exit Criteria:**

1. **Test Case Execution Completed**: All planned test cases have been executed, with results documented.
2. **Defect Resolution**: Critical defects are fixed, re-tested, and closed; remaining defects are either acceptable or deferred.
3. **Test Summary Report**: Final test summary report is prepared, reviewed, and approved for closure.

**Entry and exit criteria for test designing**

**Entry Criteria:**

1. **Requirement Specifications Available**: Detailed functional and non-functional requirement documents are available and approved.
2. **Test Strategy Finalized**: The overall test strategy, including types of testing and scope, is well-defined and approved.
3. **Test Environment Specifications Known**: The hardware, software, and network configurations for the test environment are clearly defined.

**Exit Criteria:**

1. **Test Cases and Scripts Prepared**: All necessary test cases and test scripts are written, reviewed, and ready for execution.
2. **Test Data Defined**: Relevant test data is prepared, reviewed, and aligned with the test cases.
3. **Traceability Matrix Updated**: Requirements traceability matrix is updated to ensure coverage of all requirements by test cases.

**Entry and exit criteria for test executing**

**Entry Criteria:**

1. **Test Cases Approved**: All test cases and test scripts have been reviewed, approved, and are ready for execution.
2. **Test Environment Set Up**: The test environment is fully configured, stable, and verified for testing.
3. **Test Data Prepared**: Required test data has been created and validated for accuracy.

**Exit Criteria:**

1. **Test Case Execution Completed**: All planned test cases have been executed, with their results recorded.
2. **Defects Logged and Tracked**: All identified defects are logged, with critical defects addressed, retested, and closed.
3. **Test Execution Report Generated**: A detailed test execution report, summarizing the results and defects, has been created and reviewed.

**Entry and exit criteria for test closer**

**Entry Criteria:**

1. **Test Execution Completed**: All planned test cases and test cycles have been executed, and the results are documented.
2. **Defects Resolved**: All critical and high-priority defects have been fixed, retested, and closed, or appropriate actions have been agreed upon.
3. **Test Deliverables Ready**: All test deliverables, such as test cases, scripts, logs, and reports, are complete and reviewed.

**Exit Criteria:**

1. **Test Summary Report Approved**: The final test summary report has been created, reviewed, and approved by stakeholders.
2. **Lessons Learned Documented**: Lessons learned during the test process have been identified and documented for future improvement.
3. **Test Artifacts Archived**: All test-related documents and artifacts (e.g., test cases, defect logs, reports) have been stored and archived for future reference

**Tools**

1. Miro Mind Map tool
2. Jira – Project management tool
3. Microsoft Excel -- Reports
4. Zephyr- Test Management
5. Cypress – Test Scripts

**Risk And Migration Plans**

The Following are the list of risks possible and the ways to solve them.

|  |  |
| --- | --- |
| Risk | Alleviation plans |
| Lack of Automation | Backup Resource Planning |
| No detailed Requirement Analysis | Subject matter experts available for deep understanding of functionalities |

**Approvals**

Masai will send the different types of documents for client approval like below:

* Test Plan
* Test Scenarios
* Reports

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

**Conclusion**

In conclusion, the test plan for the Employee Data Management module of Orange HRM outlines a structured and comprehensive approach to ensure the quality, reliability, and security of the system. Through detailed testing covering functionality, performance, security, and compliance, the objective is to identify and address any issues that could impact the module’s effectiveness.

Successful completion of this testing will confirm that the module meets the specified requirements, adheres to industry standards, and provides a seamless user experience for HR professionals. The test results will validate that the module can handle real-world scenarios efficiently and securely, maintaining data integrity and protecting sensitive employee information.

The outcomes from this test plan will guide any necessary fixes or enhancements, ensuring the final product supports HR teams in their critical task of managing employee data with confidence and ease. Once all identified issues are resolved, the module will be ready for deployment, providing a reliable and secure solution within the orange HRM platform.

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