**TEST PLAN DOCUMENT**

**Table of Contents**

**TOPICS PAGE NO**

1. **Introduction 2**
   1. Purpose 2
   2. System Under Test 2
   3. Version 2
2. **Test Plan ID 2**
3. **Objective 2**
4. **Scope 3**
   1. In Scope 3
   2. Out of Scope 3
5. **Test Environment 4**
6. **Modules to be Tested 4**
7. **Test Deliverables 4**
8. **Test Strategy 4**
   1. Testing Types (Functional, UI, etc.) 4
   2. Entry & Exit Criteria 4
   3. Suspension & Resumption Criteria 5

**9. Test Design Techniques 5**

**10. Test Schedule & Milestones 5**

**11. Tools to be Used 6**

**12. Defect Management Process 6**

**13. Approval Section 6**

* 1. Prepared By 6
  2. Reviewed By 6

**1. INTRODUCTION**

**1.1 Purpose of the Document**

This test plan outlines the approach, scope, and deliverables for the testing activities related to the login functionality of the OrangeHRM application. It serves as a blueprint to ensure quality standards are met prior to production release.

**1.2 System Under Test (SUT)**

OrangeHRM is an open-source Human Resource Management system offering modules for personnel information management, leave tracking, performance evaluation, and more. This test plan focuses specifically on validating the login module, including user authentication, security checks, and access control mechanisms.

**1.3 Version Control**

* Document Version: 1.0
* Author: Sowrya Muramshetty
* Date Created: July 31, 2025

**2. TEST PLAN ID**

TP\_ORANGEHRM\_LOGIN\_001

**3. OBJECTIVE**

The objective of a test plan for OrangeHRM is to systematically verify that all core features—such as employee management, leave tracking, time and attendance, and user authentication—function as expected and meet business requirements. The plan ensures smooth integration between modules, consistent performance under load, proper security for role-based access, and a user-friendly interface across platforms. It also helps identify bugs and usability issues early, enabling developers and testers to prioritize fixes and improvements before the system is deployed.

**4. SCOPE**

**4.1 In Scope**

**Login Module**:

* + - Verification of valid/invalid login credentials
    - Error messages and field validations
    - Forgot Password functionality

**Employee Management**:

* + Adding new employees
  + Editing personal details and job information
  + Managing employee directory

**Leave Management**:

* + - Applying for leave
    - Approving/rejecting leave requests
    - Viewing leave balance and history

**Time Tracking**:

* Clock in/clock out functionality
* Timesheet entry and submission
* Approval workflows for time records

**Recruitment Module**:

* + - Creating job vacancies
    - Adding and managing candidates
    - Scheduling interviews and updating status

**4.2 Out of Scope**

* Modules not included in the current release (e.g., Training or Marketplace)
* **Mobile App Testing**, if only web is targeted
* **Third-party APIs** not yet integrated
* **Localization/Internationalization**, unless specified

**5. TEST ENVIRONMENT**

* + Web browser: Chrome v120+, Firefox v110+
  + URL: https://opensource-demo.orangehrmlive.com
  + OS: Windows 10 / 11
  + Test Data: Predefined users (Admin / admin123)

**6. MODULES TO BE TESTED**

* + **Login & Security**: Authentication and password rules
  + **Admin Panel**: Roles, permissions, and settings
  + **PIM**: Employee data management
  + **Leave**: Leave requests, balances, approvals
  + **Time**: Attendance tracking, punch-in/out
  + **Recruitment**: Job posts, applications, interview flow

**7. TEST DELIVERABLES**

* Test Plan Document
* Test Cases (Excel)
* Bug Report (Excel)
* Test Summary Report

1. **TEST STRATERGY** 
   1. **Testing Types**

* Functional Testing
* UI Testing
* Validation Testing
* Negative Testing
* Compatibility Testing (across browsers)

**8.2 Entry Criteria**

* Application deployed and accessible
* Test environment setup
* Requirements finalized

**Exit Criteria**

* All critical test cases executed
* No high-severity bugs remain open
* Test summary report created

**8.3 Suspension/Resumption Criteria**

* + - Testing suspended if the login module is not accessible or blocked by a bug
    - Testing resumed after the blocker is resolved

1. **TEST DESIGN TECHNIQUES**
   * **Equivalence Partitioning**: Group valid/invalid inputs (e.g., leave types) and test one from each.
   * **Boundary Value Analysis**: Test edge values like 0, 1, and max leave days.
   * **Decision Table Testing**: Combine inputs (e.g., login credentials) to verify outcomes.
   * **State Transition Testing**: Check employee status changes (Active → Terminated → Rehired).
   * **Error Guessing**: Try common mistakes (e.g., submitting leave without dates).
2. **TEST SCHEDULE & MILESTONES**

| **Phase** | **Duration** | **Activities** |
| --- | --- | --- |
| **Requirement Review** | 2 days | Analyse modules (Login, Leave, Recruitment) |
| **Test Planning** | 2 days | Define scope, strategy, and resources |
| **Test Case Design** | 6-7 days | Create test cases using design techniques |
| **Environment Setup** | 1 day | Configure test environment and sample data |
| **Test Execution** | 5–7 days | Run manual tests, log defects |
| **Defect Retesting** | 2–3 days | Verify fixes and perform regression testing |
| **Test Closure** | 1 day | Final report, metrics, and sign-off |

1. **TOOLS USED**

| **Tool Name** |  | **Purpose** |
| --- | --- | --- |
| Excel / Google Sheets |  | Documenting test cases, execution logs, bug reports |
| Test Plan Document (PDF/Word) |  | Outlines scope, objectives, and strategy |
| Bug Tracker (Excel or third-party) |  | Logging and tracking defects |
| GitHub |  | Hosting test artifacts and collaboration |

1. **DEFECT MANAGEMENT SYSTEM**

* Identify and document bug in bug report
* Assign severity and priority
* Share with developer or reviewer
* Retest after fix
* Close bug once verified

1. **APPROVAL SECTION**

* **Prepared By:** SOWRYA MURAMSHETTY
* **Reviewed By:** Self (as part of self-learning project)