### **Test Plan for OrangeHRM**

#### **1. Test Plan Identifier**

**Test Plan Version:** v1.0  
**Project Name:** orangehrmlive.com Testing Plan  
**Date:** 05.10.2025

#### **2. Introduction**

OrangeHRM is an all-in-one Human Resource Management (HRM) software solution designed to support organizations of all sizes in streamlining their HR operations. It offers a wide range of tools for handling employee information, performance reviews, leave tracking, recruitment, and more. This test plan is intended to verify the functionality and accessibility of key features, including URL validation, page titles, button visibility and behavior, database creation and access, as well as the login and logout workflows.

#### **3. Test Objectives**

* The objective of this project is to develop an automated testing system for the demo CRM web application available at https://opensourcedemo.orangehrmlive.com/web/index.php/auth/login
* The testing framework will utilize Python with Selenium to automate interactions across various web browsers, including Microsoft Edge, Google Chrome, Mozilla Firefox, and Safari.
* The system will perform a series of actions outlined in the Test Description, validating the application's behavior by checking resulting web pages for expected content and functionality. Pytest-based HTML reports will be generated to summarize test results.
* All test case scripts must be implemented using the **Page Object Model (POM)** structure, incorporating **Python's object-oriented programming (OOP) principles**. Adherence to **PyLint standards** for naming conventions (variables, functions, classes, methods, and objects) is required. Additionally, the use of the **Data-Driven Testing Framework (DDTF)** is mandatory.

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#### **4. Scope**

**In Scope:**

* Validating Core pages and Interaction like Login, Logout, Browsing, Signup, Create Database and Access Database
* Web application functionality on desktop browsers.
* Supported browsers (Chrome, Firefox, Edge)

**Out of Scope:**

* Mobile app testing (if applicable).
* Testing for unsupported or outdated browser versions.

#### **5. Test Items**

* **URL**
* **Title**
* **Validations of List of Functions**
* **Login/Logout functionality**
* **Signup**
* **Create Database**
* **Access Database**
* **Error handling: Invalid logins**

#### **6. Test Types**

1. **Functional Testing**
   * Verify login/logout Signup processes
2. **Usability Testing**
   * Evaluate UI/UX elements for ease of use and intuitiveness.
3. **Compatibility Testing**
   * Test across multiple browsers (e.g., Chrome, Firefox, Safari) and devices.
4. **Security Testing**
   * Validate data protection mechanisms, session handling, and encryption.

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#### **7. Test Environment**

* **Browsers:** Chrome, Firefox, Edge, Safari
* **Operating Systems:** Windows, macOS, Linux, iOS, Android
* **Tools:** Selenium

#### **8. Test Data**

* **User Accounts:**
  + Valid: Admin
  + Invalid: admin123
* **Excel** File (For DDT)

#### **9. Test Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Start Date** | **End Date** | **Responsible Team** |
| Test Plan Creation | [05.10.2025] | [05.10.2025] | QA Team |
| Test Case Design | [05.10.2025] | [05.10.2025] | QA Team |
| Test Execution | [05.10.2025] | [05.10.2025] | QA Team |
| Defect Reporting | [05.10.2025] | [05.10.2025] | QA Team |
| Test Summary Report | [05.10.2025] | [05.10.2025] | QA Team |

#### **10. Roles and Responsibilities**

* **Test Manager:** Oversee the testing process, allocate resources, and ensure deadlines are met.
* **QA Engineers:** Design, execute, and report test cases and defects.
* **Developers:** Fix reported issues and provide builds for testing.

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#### **11. Entry and Exit Criteria**

**Entry Criteria:**

* Application is deployed in the test environment.
* Test data is prepared.
* All necessary tools and resources are available.

**Exit Criteria:**

* All critical and major defects are resolved.
* Test coverage is above 95%.
* Test summary report is approved.

#### **12. Risks and Mitigation Plan**

**Risks:**

* Delays in build availability.
* Lack of test data or environments.
* Resource constraints.

**Mitigation:**

* Plan for contingency environments.
* Prioritize critical functionalities during resource shortages.

#### **13. Deliverables**

* Test Plan Document
* Test Cases and Scenarios
* Test Execution Reports
* Defect Reports
* Final Test Summary Report