**PAT project - 1**

# **Test Case Document for Orange HRM Login and PIM Module**

## **Introduction**

This document outlines the test cases for the Orange HRM application, focusing on the login functionality and the Personnel Information Management (PIM) module. The tests are structured using the pytest framework and follow the Page Object Model (POM) design pattern for improved maintainability and organization.

## **Test Environment**

* **Application URL**: [Orange HRM](https://opensource-demo.orangehrmlive.com/)
* **Browser**: Chrome
* **Testing Framework**: pytest
* **Data Source**: CSV file for login credentials (data/login\_data.csv)

## **Test Cases Overview**

### **Login Module**

#### **Test Case 1: Login with Valid Credentials**

* **Description**: Verifies that the user can log in with valid credentials.
* **Preconditions**: Valid username and password must exist in the CSV file.
* **Test Steps**:
  1. Load login data from the CSV file.
  2. Retrieve valid credentials.
  3. Navigate to the Orange HRM login page.
  4. Enter the username and password.
  5. Click the login button.
* **Expected Result**: User should successfully log in, and the dashboard should be displayed. A screenshot should be captured upon successful login.
* **Postconditions**: User remains logged in for further actions.

#### **Test Case 2: Login with Invalid Credentials**

* **Description**: Checks the system’s response when invalid login credentials are provided.
* **Preconditions**: Invalid username and password must exist in the CSV file.
* **Test Steps**:
  1. Load login data from the CSV file.
  2. Retrieve invalid credentials.
  3. Navigate to the Orange HRM login page.
  4. Enter the username and password.
  5. Click the login button.
* **Expected Result**: An error message "Invalid credentials" should be displayed. A screenshot of the error message should be captured.
* **Postconditions**: User remains on the login page.

### **PIM Module**

#### **Test Case 1: Add Employee**

* **Description**: Tests the addition of a new employee in the PIM module after successful login.
* **Preconditions**: User must be logged in with valid credentials.
* **Test Steps**:
  1. Navigate to the PIM module.
  2. Click on the "Add Employee" link.
  3. Fill in the employee details (first name, middle name, last name, employee ID).
  4. Upload a profile image.
  5. Click the save button.
* **Expected Result**: A success message indicating the employee was added successfully should be displayed. A screenshot should be captured.
* **Postconditions**: Employee data is saved in the system.

#### **Test Case 2: Edit Employee Details**

* **Description**: Verifies that existing employee details can be edited successfully.
* **Preconditions**: User must be logged in and have at least one employee record to edit.
* **Test Steps**:
  1. Navigate to the PIM module.
  2. Select the first employee from the list.
  3. Click on the edit button.
  4. Update employee details (first name, middle name, last name, etc.).
  5. Click the save button.
* **Expected Result**: A success message indicating the employee details were updated successfully should be displayed. A screenshot should be captured.
* **Postconditions**: Employee details are updated in the system.

#### **Test Case 3: Delete Employee**

* **Description**: Tests the deletion of an employee's record in the PIM module.
* **Preconditions**: User must be logged in and have at least one employee record to delete.
* **Test Steps**:
  1. Navigate to the PIM module.
  2. Select the employee to delete.
  3. Click the delete button.
  4. Confirm the deletion action.
* **Expected Result**: A success message indicating the employee was deleted successfully should be displayed. A screenshot should be captured.
* **Postconditions**: The employee record is removed from the system.

## **Execution Notes**

* Ensure that the appropriate WebDriver is installed and configured.
* Run tests in a clean environment to avoid data inconsistency.
* Capture and store screenshots for each test case outcome for future reference.

## **Conclusion**

This test case document provides a structured approach to testing the login functionality and PIM module of the Orange HRM application. By following these test cases, the application can be validated for both functionality and usability, ensuring a robust user experience.