

AT PROJECT 2

Table of Contents

1. Test Case Overview
2. Scope
3. Testing approach
4. Test environment
5. Test Cases
 - Password Reset
 - TC_PIM_01
 - Admin elements Validation
 - TC_PIM_02
 - TC_PIM_03
6. Conclusion

Test Case Overview

This document outlines the testing strategy and specific test cases for the Selenium automation testing project - AT_Project_2. The focus is on validating the core functionalities of the OrangeHRM web application, specifically user authentication, password reset operations, and admin functionalities.

Scope

The scope of testing includes:

- **User Authentication:** Ensuring users can log in with valid credentials and that appropriate error messages are displayed for invalid attempts.
- **Password Reset Functionality:** Verifying the process for resetting user passwords.
- **Admin Page Functionality:** Validating the visibility and clickability of admin page elements.
- **Side Menu Functionality:** Ensuring all side menu items are functional and accessible.

Testing Approach

The testing approach follows a structured methodology:

1. **Test Case Design:** Test cases are designed to cover both positive and negative scenarios, ensuring comprehensive coverage of functionalities.
2. **Automation:** Tests are automated using Selenium WebDriver, allowing for efficient execution and reporting.
3. **Data-Driven Testing:** Test cases leverage data from an Excel file, enabling multiple iterations of tests with varying input values.

Test Environment

- **Application Under Test:** The OrangeHRM web application is hosted at a specified URL.
- **Testing Tools:** The testing framework used is Pytest, with Selenium for browser automation and OpenPyXL for Excel file manipulation.
- **System Requirements:** Ensure that the environment has Python, necessary libraries (Selenium, OpenPyXL, etc.), and a compatible web browser.

Test Cases

Login Tests

Test Case 1: TC_PIM_01

- **Description:** Verify the password reset functionality.
- **Prerequisites:**
 - Valid username and password stored in Excel.
 - The application is accessible.
- **Test Steps:**
 - Launch the application.
 - Navigate to the login page.
 - Click password reset.
 - Input the valid username.
 - Submit the password reset request.
- **Expected Result:**
 - A confirmation toast message should appear indicating that the password is reset.
 - Success message written to the Excel file.

Test Case 2: TC_PIM_02

- **Description:** Validate the title and visibility of admin page header elements.
- **Prerequisites:**
 - User must be logged in with admin credentials which are stored in Excel.
 - The application is accessible.
- **Test Steps:**
 - Launch the application.
 - Navigate to the login page and login with valid credentials.
 - Navigate to the Admin page.
 - Validate the page title.
 - Check visibility and clickability of all admin page header elements.
- **Expected Result:**
 - The page title matches the expected title, and all elements are visible.
 - Success message written to the Excel file.

Test Case 5: test_TC_PIM_03

- **Description:** Validate the functionality of all side menu items.
- **Prerequisites:**
 - User must be logged in with admin credentials which are stored in Excel.
 - The application is accessible.
- **Test Steps:**
 - Launch the application.
 - Navigate to the login page and login with valid credentials.
 - Navigate to the Admin page.
 - Check visibility and clickability of all side pane menu elements.

- **Expected Result:**

- All the side pane menu items are visible and clickable.
- Success message written to the Excel file.

Conclusion:

This test case document provides a comprehensive overview of the tests designed to validate user authentication, password reset functionality, and admin page features of the OrangeHRM application. Each test case is structured to ensure clear understanding and ease of execution.