TEST PLAN FOR ORANGEHRM DEMO

Contents

Project Overview

Introduction

This test plan outlines the scope and approach for testing the OrangeHRM demo web application, a Human Resource Management (HRM) software solution. The target users for this testing are enterprises seeking functionalities related to resource management and employee evaluation.

Test Objectives and Test Scope

The testing will focus on the following key areas:

Functionalities: Testing the core functionalities of the OrangeHRM demo, including the following objectives:

a. Testing the authentication response of varied inputs instances, in the login section, updating user login credentials and testing the logout function.

b. Employee data management: Testing the filter functionality in the admin user management section.

c. Data Validation: Testing the forms within the "My info" section by updating personal details, contact details and emergency contact with valid and invalid inputs of various data types (e.g., names, dates, numbers), this ensures for optimal testing, improving data integrity and accuracy.

Test Scope

1. **User Profiles and Authentication Testing:**
   This section will focus on comprehensively evaluating the login functionality of the OrangeHRM Demo to guarantee secure and uninterrupted user access. The test cases below User profiles and Authentication encompasses a variety of scenarios designed to test the functional requirement of the Login module, which includes:

   - **Valid Credentials:** Verify successful login with correct usernames and passwords.

   - **Invalid Credentials:** Test the system's behaviour with incorrect usernames, passwords, or a combination of both. This includes scenarios like missing fields, typos, case sensitivity to input, and invalid formats.

   - **Password Reset:** Ensure the password reset functionality works as expected, allowing users to recover their accounts.

   - **Password Update:** Ensure that users are able to update their login credentials successfully.

   - **Logout:** Ensure that users are able to successfully logout after each session.

2. **My info Module Testing:**
   This section will focus on comprehensively evaluating the behaviour of the forms embedded in "My info" section of the OrangeHRM Demo web application, at the submission of various inputs. This is to guarantee a fitting response to valid and invalid credentials, enabling overall enhancement in data integrity and correctness. The test cases below encompasses a variety of scenarios designed to test the functional requirement of the "My info" section, which includes:
   - Personal Details: Ensure that user can successfully update their personal details with valid credentials. **Test edge cases for the following:** character limit (e.g., names, dates and numbers). Leaving mandatory fields blank (e.g., first name, last name). Entering special

characters or symbols not allowed in names. Entering future dates for date of birth.

- Contact Details: Ensure that user can successfully add and update valid contact details and home addresses.

  Test edge cases for the following:

  Entering valid phone numbers with different formats or without country codes.

  Entering different valid email addresses with or without periods in them.

  Entering invalid phone numbers (Alphanumeric character sets). Entering invalid email addresses either missing the required prefixes or suffixes.

  Entering invalid home address with special characters in place of valid data.

- Emergency Contacts: Ensure that users can successfully upload files of valid formats; .docx, pdf.

  Test edge cases for invalid file submission; .jpeg, scripts, .svg, and png.

3. **Admin / User Management Module Testing:** This section aims to test the filter functionality in the user management section of the admin module.

   - **Filter/Search:** Ensure that user can successfully filter through user profiles by username, user role, employee name or status, either specifically or concurrently. Test for edge cases for unregistered user profiles.

   - **Add New User Profile:** Ensure that new user profile can be added and found in with the filter functionality.

   - **Delete User Profiles:** Ensure that user profiles can be deleted permanently from system registry and is not found in subsequent search results.

Testing Approach

We will employ an exploratory testing approach, where testers will freely interact with the application to discover potential issues and areas for improvement. This approach will be complemented by boundary testing to ensure the application handles expected data ranges correctly.

Test Techniques: The testing techniques that will be employed in this project are manual testing with the creation of test documentation files in csv format, that accommodates all test cases and captures all scenario types and statuses effectively, through the means of a spreadsheets program. Automated tests will be conducted to perform E2E testing of the web application. This ensures consistency and reliability across platforms.

Test Environment:

- Browser: Version 123.0.6312.86 (Official Build) (64-bit)
- Operating System: Windows 10 (64-bit)
- Test Case Management Tool: Microsoft Excel
- Cypress Version: version 13.7.0

Test Case List: Manual Test

Authentication

- TC_01: Login/valid credentials
- TC_02: Login/invalid credentials
- TC_03 Password Reset
- TC_04: Password Update
- TC_05: Logout

Data Validation

- TC_06: Personal Details/Valid credentials
- TC_07: Personal Details/Blank field
- TC_08: Personal Details/Long character
- TC_09: Personal Details/Future dates
- TC_10: Contact Details/ Valid credentials
- TC_11: Contact Details/Invalid Phone No.
- TC_12: Contact Details/Invalid email

- TC_13: Contact Details/Invalid Home address
- TC_14: Emergency Contacts/Valid file Upload
- TC_15: Emergency Contacts/Invalid file Upload

Admin User Management.

- TC_16: Admin / User Management/Filter
- TC_17: Admin / User Management/Add user
- TC_18: Admin/ User Management/ Update user
- TC_19: Admin / User Management/Delete user

Test Case: Automated Test

Authentication

- TC_01: Login/valid credentials (Assert with profile icon visibility)
- TC_02: Login/invalid credentials (Assert with error message)
- TC_03: Login/forgot password (Assert with URL endpoint)
- TC_04: Password update (Assert confirmation message visibility)
- TC_05: Logout

Data Validation

- Personal-Details/ Valid Credentials
- Personal-Details/ Invalid Credentials

Admin User Management.

- TC_16: Admin / User Management/Filter
- TC_18: Admin/ User Management/ Update user
- TC_19: Admin / User Management/Delete user

Overall, this testing aims to comprehensively evaluate the OrangeHRM demo, ensuring its functionalities meet the needs of its target audience.