



## Test Plan

14.09.2023

Catrinoiu Gabriela Simona

## History

OrangeHRM Inc. software was originally developed in 2005 by the CEO and founder Sujee Saparamadu and it is best known for its Human resource management system. OrangeHRM 1.0 was a free and open source version released to Sourceforge in March 2006. 1.0 comprised features such as employee information management, employee self-service, and reporting.

## Table of Contents

1. Introduction
  - 1.1 Project objective.
  - 1.2 Functionalities in scope.
  - 1.3 Functionalities and tests out of scope.
2. Test process.
  - 2.1 Test planning.
  - 2.3 Test design.
  - 2.4 Test implementation.
  - 2.5 Test execution.
  - 2.6 Test closure.
  - 2.7 Test monitoring and control.
3. Test deliverables.
  - 3.1 Test plan.
  - 3.2 test conditions.
  - 3.3 Test cases.
  - 3.4 Daily test summary reports.
  - 3.5 Traceability matrix.
  - 3.6 Test case results.
  - 3.7 Bugs reports.
  - 3.8 Test completion report

### 1. Introduction

OrangeHRM is a Human Resources Management System for any company or enterprise which manages a big number of human resources tasks. It is a powerful tool providing employees of the

company with the ability to view relevant information such as personal information and updating personal information with an internet enabled PC without having to involve the HR department.

### 1.1 Project objective.

The scope of this project for ITFactory Manual and Automation Testing Course is to practice and use all the information and knowledge that I have gained through the course using a live browser application. This project consists of a test plan which describes the strategies and the process used to plan, organize and execute the test process for OrangeHRM browser application, Admin module.

Tools: Jira, Postman, MySql

### 1.2. Functionalities in scope

The features of Admin module, which consists of five submodules, were written in the software requirement specification and have to be: API testing, Functional testing and GUI testing.

### 1.3. Functionalities and tests out of scope

- All the other features of OrangeHRM website except Admin module menu.
- Only web application will be tested.
- There is no automation testing available.
- Non-functional testing such as performance testing is beyond scope of this project.

## 2. Test process

### 2.1 Test planning

Roles and responsibilities:

Roles	Responsibilities
Product Owner	Andy Sinpetrean
Project Manager	Gabriela Radulescu
QA Engineer	Simona Catrinoiu
Senior QA Engineer	Vlad Corcodel

#### Entry Criteria:

- The functional specification is defined in advance and all the roles for the project are allocated.
- The risks were detected and diminished.

#### Exit Criteria:

- All test cases have been executed.
- The QA team has closed all the resolved bugs, after re-testing them.
- The bugs which were not resolved do not present any high risk.
- No major risk remained unsolved.
- The deadline was successfully reached.

#### Risks:

##### Project risks:

- There is only one unexperienced tester in the Quality Assurance team.
- The test environment is currently unavailable.

##### Product risks:

- The release of the confidential employee information is breached by the software security.

## 2.2. Test analysis

The test conditions will be created after the business requirements will be analysed.

#### Test conditions:

Verify that all submenus in Admin Module are present

Verify that Add User window has all the input fields and dropdowns available

Verify that Job Menu has all the submenus available

Verify that all the fields in Add User page are marked as required fields

Verify that System User List looks like in the picture 1.3 from business requirements

Verify that user is not allowed to complete with special characters the field Name on Add pay Grades page

Verify that user is not allowed to complete the field Name from Add Job Category with number or special characters

Verify that user cannot upload a document bigger than 1mb on Job Specification field from Add Job Title page

Check that users cannot write more than 50 letters on Job Title input field from Add Job title page

Check if we have an info tip when we write more than 400 characters on the Note field and Job Description on the Add Job Title page

Verify if user can search in the dropdown Currency by typing the currency name

Verify that on Add Workshift page all the required fields are marked with a red star

Check that Admin User can add an Employment Status

Check that admin can delete one or multiples entries from the Employment Status window

Check that Admin can delete one or multiples entries from the Job Categories window

Checking that Admin can create a job category

Check that we can delete one or multiples entries from the Job Title window

Check that Admin user can create a Job title

Verify that the HR Admin can define a pay grade

Verify that only the HR Admin can define the Pay Grade

Check that user can delete one or multiples entries from the Pay Grade window

Verify that the HR Admin can define multiple currencies to an employee pay grade

Check that user can fill the Minimum Salary field with an amount bigger than in the Maximum Salary field on Add Currency page

Check that we can create with success an ESS Supervisor USER TYPE

Verify that we cannot create any type of User without previously creating the corresponding employee

Verify that the Admin User has full access to the system

Check that we can create with success an ESS Employee USER TYPE

Verify that ESS Supervisor has access to his personal information and to his subordinates personal information

Check that we can delete one or multiples entries from the System Users window

Check that ESS Users has limited access to the system

Check that user can delete one or multiples entries from the Work Shift Lists

Verify that user can create work shifts for employees

Verify that the mandatory fields from Edit Pay Grade page are marked with a red star

Verify that user can upload an 1mb document on Job Specification field from Add Job Title page

Verify that on Add User page the dropdowns are available and with all the options

Check that users cannot write numbers and special characters on Employee Name input field from Add User page

Check that user cannot fill with a negative number the Minimum and Maximum Salary field

## 2.3 Test Design

- API test cases will be written in Postman
- Graphic User Interface test cases will be created in Zephyr Squad
- Functional test cases will be written in Zephyr Squad
- Black box testing techniques such as Boundary Value Analysis and Equivalence Partitioning will be used for creating test cases

## 2.4 Test Implementation

Before the test cases are executed, I need to check that:

- The test environment is functioning (OrangeHRM Admin Module)
- The access to the test environment is possible using the credentials (username: Admin, password: admin123)
- All the test cases were added to Jira in Cycle Summary

## 2.5 Test execution

- All the test cases are executed, including the API test cases
- Bug reports are created when needed

## 2.6 Test completion

## 2.7. Test monitoring and control

Periodic reports are generated every two weeks in order to check the status of the project.

## 3. Test Deliverables

### 3.1. Test plan

ITFactory Project Manager expects this test plan to be delivered until the sixth week of the Manual Testing Course.