

# Testing Project

## Application Overview

OrangeHRM is a web-based Human Resource Management System used to manage employee information, attendance, leave, recruitment, and performance. The application provides role-based access and allows users to log in, view dashboards, navigate through modules, and securely log out of the system.

## Task 1:

### Functional Requirements:

#### Login Module:

- The system shall allow users to log in using a valid username and password.
- The system shall display an error message for invalid login credentials.
- The system shall not allow login when username or password fields are empty.
- The system shall mask the password field for security purposes.

#### Dashboard Module:

- The system shall redirect the user to the dashboard upon successful login.
- The system shall display widgets such as Time at Work, Quick Launch, and My Actions.
- The system shall allow navigation through dashboard widgets.

#### Menu Navigation

- The system shall allow users to navigate through modules such as Admin, PIM, Leave, Time, and Recruitment.
- The system shall highlight the currently selected menu option.

#### Logout & Session Handling

- The system shall allow users to log out successfully.
- The system shall terminate the user session after logout.
- The system shall prevent access to the dashboard after logout using browser back button.

## SDLC Phase – Testing:

The Testing phase in the Software Development Life Cycle ensures that the application meets business requirements and is free from defects. During this phase, test cases are designed, executed, and defects are identified and reported. The goal is to validate the functionality, usability, performance, and security of the application before release.

### Software Testing Life Cycle (STLC):

- Requirement Analysis – Understanding functional and non-functional requirements.
- Test Planning – Defining test strategy, scope, resources, and timelines.
- Test Case Design – Writing detailed test cases and preparing test data.
- Test Environment Setup – Preparing hardware, software, and test data.
- Test Execution – Executing test cases and logging defects.
- Defect Reporting & Tracking – Reporting bugs and tracking them to closure.
- Test Closure – Preparing test summary reports and metrics.

### Test Entry and Exit Criteria

#### 1. Test Entry Criteria

- Approved requirements document
- Test cases reviewed and approved
- Test environment available

#### 2. Test Exit Criteria

- All planned test cases executed
- No open critical or high severity defects
- Test summary report prepared