Automation Test Plan

OrangeHRM

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1. Introduction

This test plan outlines the testing strategy, scope, and responsibilities for automating OrangeHRM functionalities using Selenium WebDriver and TestNG. The primary goal is to ensure that the automation framework validates all core HRM features, reduces manual effort, and provides consistent regression coverage.

2. Scope

2.1 In Scope

The following OrangeHRM features will be tested using automation:

- Admin login and logout
- User management (Add, Edit, Delete, Search)
- Job management (Job Titles, Pay Grades, Employment Status, Job Categories, Work Shifts)
- Organization management (General Info, Locations)
- Employee management (Add Employee)

2.2 Out of Scope

- Mobile testing
- Performance testing (load, stress)
- Non-functional requirements (like security, usability, accessibility)
- Third-party integrations

3. Test Schedule

Test Case Design	One day
Automation Scripting	Two days
Final Report Submission	One day
Presentation	One day

4. Test Approach

- **Automation Tool:** Selenium WebDriver with TestNG framework
- **Programming Language:** Java
- **Test Data:** Prepared manually and stored in Excel/CSV
- **Execution:**
  - Smoke tests to check login and main navigation
  - Functional tests for all admin use cases in SRS
  - Regression tests to make sure new changes don't break existing features
- **Reporting:** TestNG reports + screenshots for failures

5. Suspension Criteria and Resumption Requirement

- **Testing will be suspended if:**
  - The application server is down
  - Major blocker defects are found
  - Test environment is unstable
- **Testing will resume once:**
  - The environment is stable

6. Test Deliverables

Before Testing

- Test Plan document
- SRS (Software Requirement Specification)
- RTM (Requirement Traceability Matrix)
- Test Scenarios and Test Cases
- Test Data (Excel/CSV files)
- Automation Framework setup (Selenium + TestNG)

During Testing

- Executed Test Scripts
- TestNG execution reports (Pass/Fail status)
- Screenshots for failed test cases

After Testing

- Final Test Summary Report
- Metrics (total tests executed, pass %, fail %)
- Automation scripts and documentation archive

7. Responsibilities

Automation Lead	Overall automation strategy, framework setup, review.
Automation Engineer	Develop and maintain Selenium + TestNG scripts, execute automation suites.
QA Lead	Align automation scope with manual QA, ensure coverage.

8. Test Environment

- **OS:** Windows 10 / Windows 11
- **Browser:** Chrome
- **Automation Tool:** Selenium WebDriver, TestNG
- **IDE:** Eclipse
- **Test Data:** Stored in Excel/CSV