8992-SDET-Project-2: Test Plan_v1.0

- **Test Plan Designer: Nazish Jehangir**
- **Date of Creation: 16th Dec 2024**
- **Software to be Tested: [OrangeHRM](#)**

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Introduction 👋:

The objective of this test plan is to ensure functionality of the **[OrangeHRM](#)** website's key features to ensure the reliability, security, and usability. It aims validating authentication, session management, role-based access, and multi-language support.

Test Plan ID: TP-2025-001

Objectives 🚀:

- **User Login:** Test authentication for valid/invalid credentials.
- **Forgot Password:** Validate password recovery and email triggers.
- **Session Management:** Check session expiry and logout behavior.
- **Admin Dashboard Access:** Ensure authorized access to HR functionalities.
- **Role-Based Access Control:** Verify permissions for admins and employees.
- **Multi-Language Support:** Test functionality across languages.
- **Responsive Design:** Validate performance on various devices.

Testing Scope 🔍:

In-Scope

The testing phase will focus on login & authentication process of the platform & will cover -

- **Usability Testing:** To ensure login form is easy to use and error alerts are clear & helpful.
- **Functionality Testing:** To verify the login functionality works under different scenarios (valid login, invalid credentials, session timeouts).
- **Performance Testing:** Assess login page's response time under different load conditions
- **Compatibility Testing:** To ensure login feature works across multiple browsers/devices.

Out-of-Scope

- Advanced performance testing (e.g., load/stress testing)
- Testing other modules like employee management or leave tracking.

Approach 🧭:

Manual and Automation Testing:

Both manual testing and automation testing using Selenium will be employed:

- **Manual Testing:** Exploratory testing to check various login scenarios, including valid login, invalid credentials, session expiry, and password reset.
- **Automation Testing (Selenium):** Automate the login process to perform regression testing, ensuring new updates do not break the login functionality.
- **Cucumber Framework with POM.**

Test Items 📋:

The following functionalities will be tested:

- User Login (Valid and Invalid Scenarios)
- Forgot Password (Email Trigger and Flow Validation)
- Session Management (Timeout, Logout Behavior)
- Multi-Language Login Page
- Role-Based Access Control (Admin vs. Employee Access)

Entry Criteria 🔑:

- Login page is functional and accessible.
- Test data (user credentials) is provided.
- Browser and device requirements are defined.

Exit Criteria 🔚:

- All test cases executed with documented results.
- Critical defects are resolved or logged for further action.
- Test summary report is submitted.

Test Environment 🖥️:

- **Devices:** Desktop, laptops, tablets, mobiles etc.
- **OS:** Windows 10, Windows 11, Linux etc.
- **Browsers:** Chrome, Edge, Firefox etc.
- **Network:** 50-75 Mbps Fiber, VPN Enabled

Scheduling 📅:

Activities	Starting Dates	Ending Dates	Durations	Responsible Persons
Test Planning	17th Jan 2025	17th Jan 2025	1 Day	QA Team
Test Case Preparation	17th Jan 2025	17th Jan 2025	1 Day	QA Team
Test Environment Setup	17th Jan 2025	17th Jan 2025	1 Day	QA Team
Functional & Usability Testings	17th Jan 2025	17th Jan 2025	1 Day	QA Team
Performance Testing	18th Jan 2025	18th Jan 2025	1 Day	QA Team
Test Execution Report	18th Jan 2025	18th Jan 2025	1 Day	QA Team
Bug Fixes and Retesting	18th Jan 2025	18th Jan 2025	1 Day	Developers & QAs

Deliverables 📝:

Content	Details
Test Scenarios	A detailed documentation that includes detailed test scenarios for the test cases.
Test Cases	A detailed documentation that includes all the detailed test cases for functional land non-functional aspects of the website.
Test Execution Report	A detailed reports for the executed test cases.
Bug Reporting	A well documented report of all the bugs found during the testing phase.

Roles & Responsibilities 🧑‍💼:

Role	Assigned To	Responsibility/Assignment
Test Lead	Nazish Jehangir	Coordinating the testing efforts.
Automation Tester	Mohammad Adnan	Writing & executing automation scripts.
Manual Tester	Nazish Jehangir	Exploratory Testing and etc.

Risks & Assumptions ⚠️:

- Limited time for testing across all browsers and devices.
- Dependency on test data availability.

Assumptions 🛡️:

- The application is stable and ready for testing.
- All required configurations are in place for testing the "Forgot Password" feature.

Sign Off/Conclusion 🏁:

The test plan for the **OrangeHRM** website provides a conprehensive framework to ensure all critical functionalities of the software functions well without malfunctioning and has no security threats has a user friendly navigation system and user interface across different devices or platforms, operating systems and browsers. By covering all the functional, usability & security aspects the test plan helps ensuring a successful release of the software.