Software Test Report (STR)

Project Name: OrangeHRM User Management

Version: 1.2
Test Lead: Wajeh Otman
Test Execution Period: April 16, 2025 – April 20, 2025
Test Environment: Windows 11, Chrome 120, Firefox 115
Test Tools Used: JMeter, Postman, TestRail

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1. Introduction

This Software Test Report summarizes the testing activities conducted for the **OrangeHRM User Management functionality** before deployment. It includes test execution details, defect analysis, and overall software quality evaluation. The objective was to validate system functionality, UI components, and adherence to the functional requirements as defined in the FRD.

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2. Test Execution Summary 📌:

Metric	Value
Test Cases Planned	23
Test Cases Executed	23
Test Cases Passed	21 (91.3%)
Test Cases Failed	2 (8.7%)
Test Execution Rate	100%
Test Coverage	95%

3. Defect Analysis 📌 Summary:

Defect Metric	Value
Total Defects Reported	2
Defects Fixed	1
Defects Pending Fix	1
Defects Density	0.09 defects per test case
Defects Removal Efficiency(DRE)	50%

4. Defect Severity & Priority Distribution 📌 Summary:

Severity Level	Count	Percentage
Critical	1	50%
High	1	50%
Medium	0	0%
Low	0	0%

- **1** Critical
- **1 High**.

⚠️ **Pending Defects:**

- **Unique Username Validation (High): System allows creation of users with duplicate usernames despite validation rule in FR 5.**

- **Required Fields Validation in Edit Form (High): Editing user allows saving with empty required fields, violating FR 8.**

5. Performance Testing Summary

Metric	Value
Peak Response Time	1.8 sec
Average Response Time	0.7 sec
Error Rate	0.9 %
Throughput	250 requests/sec

6. Test Execution Timeline & Schedule Adherence Summary:

Planned Completion	Actual Completion	Schedule Variance(SV)
April 20, 2025	April 18, 2025	2 days (Ahead of schedule)

7. Conclusion & Release Recommendation

Final Status: The system meets most functional requirements, with two high-priority validation issues identified.

Release Decision: Not recommended for production until validation issues are fixed.

This **Software Test Report (STR)** provides stakeholders with a **comprehensive view** of testing outcomes, ensuring a data-driven release decision.. 🚀