**Test Report for AmaderIT HR Management System**

**Report Summary**

Project Name: AmaderIT HR Management System  
Testing Period: 15,2025 – April 30,2025  
Report Date: May 8, 2025  
Prepared By: SQA Team

**1. Summary of Testing Activities**

Test Plan Execution: Executed a total of 107 test cases.

Test Phases Covered: Functional Testing, Usability Testing, Performance Testing, Security Testing.

Testing Tools Used: Selenium, JMeter, Manual testing tools.

**2. Test Results**

**Test Case Execution**

Total Test Cases: 107  
Passed: 103  
Failed: 4  
Blocked: 0

**Defect Summary**

Total Defects Logged: 4  
Critical: 0  
High: 2  
Medium: 1  
Low: 1  
Defects Fixed: 2  
Defects Remaining: 2

**3. Metrics**

Test Coverage: 95%  
Defect Density: 0.037 defects per test case  
Defect Detection Rate: 0.13 defects per day (approx.)  
Test Effort: ~150 hours

**4. Risks and Issues**

**High Priority Issue:**

Description: Incorrect salary calculation for overtime in Payroll module.  
Impact: High; affects salary accuracy and employee trust.  
Mitigation: Immediate fix required; dedicated developer assigned.

**Medium Priority Issue:**

Description: Unable to delete terminated employee profile.  
Impact: Medium; affects HR data management.  
Mitigation: Scheduled for fix in upcoming patch cycle.

**5. Recommendations**

Payroll Management: Immediate resolution of overtime salary bug and conduct a full payroll validation test.  
Employee Management: Resolve deletion issue and conduct data integrity checks.  
Regression Testing: Plan a regression cycle after defect fixes.

**6. Detailed Test Results**

**Functional Testing**

Modules Covered: Login, Employee Management, Attendance, Leave, Payroll, Role-Based Access, Reports.  
Results: 96.3% test cases passed, 3.7% failed.

**Usability Testing**

Feedback: System is intuitive, with minor layout issues in reports.  
Results: 90% positive responses, 8% neutral, 2% negative.

**Performance Testing**

Load Test Results: System can handle 100 concurrent users with acceptable response times.  
Stress Test Results: Minor lag observed at 150+ concurrent users; acceptable for expected usage.

**Security Testing**

Vulnerabilities Found: No critical vulnerabilities. Basic access controls and data protection validated.  
Results: Secure for internal deployment.

**7. Next Steps**

* Fix remaining defects and retest.
* Conduct regression testing on core modules.
* Perform additional payroll validation testing post-fix.

**8. Conclusion**

The testing phase for the AmaderIT HR Management System has been executed successfully with a **96.3% test case pass rate**. While most core functionalities are stable, **2 high-priority defects** remain unresolved and must be fixed before production deployment. Further testing and validation are recommended post-defect fixes.

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