HR Management System - Planning & Design Document

# Sprint 1 Task Planning (2 Weeks)

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| Task ID | Feature | Description | Estimated Time |
| EMP-001 | Login System | Implement role-based login with redirection | 1 day |
| EMP-002 | Employee CRUD | Add, edit, deactivate employee records | 2 days |
| EMP-003 | Role Management | Create roles, assign permissions | 1.5 days |
| ATT-001 | Attendance Tracking | Clock in/out using MAC, view records | 2.5 days |
| LEAVE-001 | Leave Request | Submit leave request form | 2 days |
| LEAVE-002 | Leave Approval | Approve/reject requests by HR | 1 day |
| DASH-001 | Dashboard | Show KPIs like headcount, today’s leave | 1 day |
| TEST-001 | Testing | Bug fixing & testing cycle | 1 day |

# Database Schema Overview

## User

* UserId (PK)
* Username
* Email
* PasswordHash
* RoleId (FK)
* EmployeeId (nullable FK)

## Role

* RoleId (PK)
* RoleName

## Employee

* EmployeeId (PK)
* FullName
* NationalId
* PhoneNumber
* Address
* Email
* Gender
* DOB
* HireDate
* Salary
* DepartmentId (FK)
* IsActive

## Department

* DepartmentId (PK)
* DepartmentName

## Attendance

* AttendanceId (PK)
* EmployeeId (FK)
* Date
* CheckIn
* CheckOut
* MacAddress
* IsLate
* IsAbsent
* OvertimeHours

## LeaveRequest

* LeaveId (PK)
* EmployeeId (FK)
* LeaveType
* StartDate
* EndDate
* Reason
* Status
* AppliedDate
* DecisionDate
* ApprovedBy (FK)

## AuditLog (Optional)

* LogId (PK)
* UserId (FK)
* Action
* Timestamp
* AffectedEntity
* EntityId

# Frontend Design Pages

1. Login Page
2. Dashboard (Admin/HR/Employee views)
3. Employee List + Add/Edit Page
4. Employee Profile Page (optional)
5. Attendance Sheet + Filter Page
6. Employee Attendance Page
7. Leave Request Submission (Employee)
8. Leave Approval List (HR)
9. User List and Add/Edit Page (Admin)
10. Role Permission Management Page (Admin)
11. Reports Page (Summary & Export)
12. Settings Page (Leave types, holidays, MAC policies)