**Introduction**

Human Resource Management (HRM) software development is the process of creating digital solutions to streamline, automate, and enhance HR processes within organizations. As businesses grow, managing tasks like employee recruitment, onboarding, payroll, performance evaluations, and attendance tracking becomes increasingly complex. HRM software addresses these challenges by providing an integrated platform where HR teams and employees can manage essential functions more efficiently.

Modern HRM systems incorporate various modules—such as employee management, performance tracking, task assignments, and reporting tools—that empower HR professionals to make data-driven decisions, improve employee engagement, and foster overall organizational growth.

**FrontEnd Requirements**

When designing a **Human Resource Management (HRM) system**, the front-end requirements should focus on usability, accessibility, and a clean, intuitive interface to handle a wide range of HR functions.

**User Interface Design(UI)**

**Clean and Intuitive Layout:** The UI should be easy to navigate, with a clear structure for dashboards, menus, and key actions.

* **Dashboard:** A main landing page with key stats (e.g., employee attendance, leave requests, recent activities).
* **Navigation Bar:** A responsive sidebar or top navigation that provides access to key modules (e.g., Employee Management, Payroll, Time & Attendance, Reports, etc.).
* **Responsiveness:** The design must be responsive to ensure usability across various devices like desktops, tablets, and mobile phones.
* **Consistency:** Uniform use of colors, fonts, and design elements across the platform to maintain a professional and cohesive look.

**Front End Technology.**

Candidates need to develop a User friendly Interface using any Following Frontend Framework

1. Bootstrap
2. Reactjs
3. Angular

**Note:** Developing Reactjs or Angular based Application will be a Added Advantage for the candidate.

**Backend Requirement**

Designing the backend for a **Human Resource Management (HRM) system** requires careful planning to ensure scalability, security, performance, and seamless interaction between the system's core functions. Below are the key **backend requirements** for an HRM system, covering database architecture, security, API management if required and business logic implementation.

**Database Design and Management**

The HRM system needs a well-structured and normalized relational database to handle the extensive data it collects and processes.

* **Relational Database (SQL):** Use a relational database like MySQL, PostgreSQL, or SQL Server to store and manage structured data such as employee details, payroll records, and performance metrics.
  + **Key Tables:**
    - Department: Stores Department information
    - Role: Stored the role assigned to a User(Admin, Manager,Team-Leader and Employee) .
    - User: Manages User.
    - Performance: Tracks employee reviews, feedback, goals, and accomplishments.
    - Task: Manages Task assigned for the User.
    - Leave: Manages leave requests, approvals, and balances.

Apart from above table there can be more number of tables as per the requirements, candidate need to design those tables and establish the relationship if required with other tables.

**Relationship Management:** Establish relationships between tables (e.g., one-to-many relationships between User and Task   table).

**Github**

1. Candidate must create a repository on the Github.
2. After completion of Each module candidate. must push the code to the repo, so that Internship evaluator at any can evaluate updated code.
3. Readme file must be designed Properly.

**Deployment**

1. candidate must deploy the project on any free server which support the backend Framework.
2. After completion of every module or topic candidate need to deploy it on server.
3. Application must be running 24 x 7 on live server after completion of 1st module.
4. Evaluator can check your domain link and completed functionality link at any time.

**Introduction**

The Department Creation Module is a crucial part that allows administrators to organize and structure the company into various departments.This module enables the creation, modification, and management of departments within the organization, providing a clear hierarchy and improving employee management.