Project Title: WorkForcePro

Project Overview:

The WorkForcePro is designed to facilitate the efficient management of employee-related data, including their personal information, attendance records, and salary details. The system ensures accuracy in salary calculations, monitors employee attendance, and provides essential insights for effective human resource management.

Key Features:

- Company Management:

- Create and manage details of different companies.
- Define company-specific configurations such as Basic, Hrent, and Medical percentages.

- Department and Designation:

- Organize employees into departments.
- Define various designations within the organization.

Shift Management:

• Configure different work shifts with specific timings.

- Employee Information:

- Record and manage employee details, including name, code, gender, and joining date.
- Automatically calculate Basic, HRent, and Medical based on company configurations.

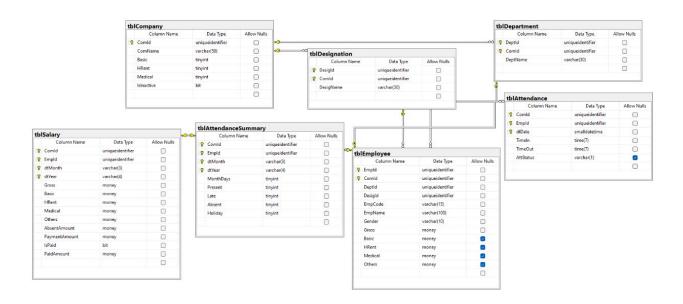
- Attendance Tracking:

- Record daily attendance for employees.
- Capture InTime, OutTime, and attendance status (Present, Absent, Late, etc.).
- Generate monthly attendance summaries.

- Salary Processing:

- Automatically calculate salary components such as Basic, HRent, and Medical.
- Calculate AbsentAmount based on the number of absent days.
- Generate PayableAmount and track payment status.
- Trigger the update of the PaidAmount when payment is made.

ERD Diagram:



Technology Stack:

Database: PostgreSQL

Backend: ASP.NET Core (C#)

• Frontend: HTML, CSS, JavaScript (with Tabulator for data visualization)

ORM: Entity Framework Core

Data Access: Npgsql (PostgreSQL adapter for .NET)

Benefits:

- Centralized and organized employee data.
- Efficient salary processing and payment tracking.
- Accurate attendance tracking and reporting.
- Enhanced decision-making through insightful data analysis.

Note:

This project description is based on the provided database schema and assumes additional features and functionalities may be added based on specific requirements and business needs.