

# 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.