1. Introduction

Project Overview:

The Employee Management System is a web application that allows organizations to manage employee data efficiently. It provides a user-friendly interface for administrators to perform CRUD (Create, Read, Update, Delete) operations on employee records. The system includes a login page with **JWT Authentication** for secure access, and a dashboard to view, add, edit, or delete employees.

2. Requirements

System Requirements:

Backend Framework: ASP.NET Core

• Frontend: Razor Pages

• Database: PostgreSQL

• Authentication: JWT Token-based authentication

• Development Tools:

.NET SDK (version 5 or later)

PostgreSQL Database

o Visual Studio or Visual Studio Code (for development)

3. Setup and Installation

Clone the Repository:

Clone the GitHub repository to your local machine:

git clone https://github.com/yogeshbhande/Employee_Management_BirdiSystem.git

Database Configuration:

- 1. Install PostgreSQL and create a database for the application.
- 2. Open the appsettings.json file and update the **ConnectionString** to match your PostgreSQL database configuration:

Database Migration:

- 1. Open the Package Manager Console or use the Command Line Interface (CLI).
- 2. Run the following commands to apply migrations and set up the database schema:

dotnet ef migrations add InitialCreate

dotnet ef database update

4. Functionality

Login Page:

The system has a login page that allows users to log in using their credentials. Upon successful login, a **JWT Token** will be generated for user authentication.

Test Credentials:

Email: viraj@yopmail.com

• Password: 12345678

Dashboard:

The dashboard displays a list of employees and provides the following options:

• Edit: Edit employee details.

• **Delete**: Remove an employee from the system.

• Add New Employee: Add a new employee to the system.

CRUD Operations:

• **Create**: Admins can add new employees by filling out a form with employee details.

• **Update**: Employees can be updated by editing the existing details.

• **Delete**: Employees can be deleted from the system.

7. Conclusion

The Employee Management System is a robust application that demonstrates CRUD operations, JWT-based authentication, and a user-friendly interface. It can be extended further to include more advanced features such as role-based access control and reporting.