School Employee Management System

1. Project Overview

The School Employee Management System is a web application designed to streamline and digitize the management of school employees. It supports functionalities such as employee record management, leave request handling, role-based access control, point allocation, and transaction tracking. This system enhances transparency, accountability, and operational efficiency within educational institutions.

2. Pain Points Addressed

1   Manual tracking of employee records is time-consuming and error-prone.

2   No centralized system for handling leave requests and approvals.

3   Admins and managers lack real-time visibility into employee data.

4   Inconsistent point allocation and poor accountability.

5   Security risks due to lack of proper role-based access control.

3. Key Features

1   Employee profile management (create, read, update, delete).

2   Role-based login and access (Admin, Manager, Employee).

3   Leave request system with approval flow.

4   Point allocation and transaction history.

5   Search and pagination for employee listings.

6   Admin balance management and employee performance tracking.

4. Technology Stack

1   Frontend: React, React-Bootstrap, Axios, Framer Motion.

2   Backend: NestJS, Prisma ORM.

3   Authentication: JWT (JSON Web Tokens).

4   Database: PostgreSQL (via Prisma).

5   Hosting: Vercel (Frontend), Railway or Render (Backend).

5. Conclusion

The School Employee Management System provides a comprehensive solution for managing school staff, improving communication, and reducing administrative workload. It ensures data accuracy, enhances productivity, and promotes a structured management approach tailored for educational institutions.