**Employee Management Application**

**Overview**

Github Urls:

<https://github.com/Lasya-art/Emp_Backend>

<https://github.com/Lasya-art/Emp_Frontend>

Application URL:

Backend : <http://localhost:5000>

Frontend: <http://localhost:5173/employee>

**Ovreview:**

This is a full-stack Employee Management Application built with **React** for the frontend and **Node** ,**Express** and **Mango db** for the backend. The application allows users to:

**Features**

* **AddEmployee: Allows adding new employees to the system with details such as name, department and more.**
* **EmployeeTable: Displays a list of employees in a table format with options to view, update, or delete records.**
* **EmployeeManagementApp: The main application that integrates all functionalities, serving as the entry point for employee operations.**
* **Department: A section for managing and viewing different departments.**
* **Home: The landing page providing navigation options to access various functionalities of the app.**

The backend is connected to a simple REST API for managing employee data, while the frontend provides a user interface for interacting with the data.

**Tech Stack**

**Frontend:**

* **React.js** for building the user interface
* **Bootstrap** and CSS for styling and responsive design
* **React Router** for navigation
* **React Toastify** for notifications

**Backend:**

* **Node.js** with **Express.js** for the server
* **MongoDB** (or your preferred database) for storing employee data

**Features**

* **Employee Management**: Add, update, and delete employee records.

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* **Employee Search**: Search employees based on their name or other details.

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* **Pagination**: Handles large datasets by paginating employee listings.
* **Employee Details**: View detailed information for each employee.

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**Project Structure**

**Frontend/**

**├── src/**

**│ ├── Components/**

**│ │ ├── AddEmployee.jsx # Add Employee Component**

**│ │ ├── EmployeeTable.jsx # Employee Table Component**

**│ │ ├── Department.jsx # Department Component**

**│ │ └── Home.jsx # Home Page Component**

**│ │**

**│ ├── App.jsx # Main App component**

**│ ├── appi.js # React entry file**

**│ ├── main.jsx # ReactDOM render entry point**

**│ ├── index.css # Global CSS**

**│ └── utils.jsx # Utility/helper functions**

**│**

**├── index.html # Main HTML file**

**Components Explanation**

1. **AddEmployee**
   * A form component to add a new employee to the system.
   * Inputs include:
     + Employee Name
     + Department
     + Role
     + Date of Joining
     + Salary

**File:** Components/AddEmployee.jsx

1. **EmployeeTable**
   * Displays all employee details in a tabular format.
   * Provides functionalities like:
     + Viewing details
     + Editing an employee record
     + Deleting an employee

**File:** Components/EmployeeTable.jsx

1. **Employee Management App**
   * The main application component combining Add Employee, Employee Table, and other functionalities.
   * Acts as a centralized hub for managing employee records.

**File:** App.jsx

1. **Department**
   * Users can view employees departments.

**File:** Components/Department.jsx

1. **Home**
   * The landing page with navigation to various features:
     + Add Employee
     + View Employees
     + Manage Departments

**File:** Components/Home.jsx