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Assessment

Use Case : Develop an Application to display the Employees in an Organization , We should be able to filter by department, sort by attributes. Create a dash board to show charts like Employees by Dept etc.

Project Overview

The goal of this project is to develop an application that displays the employees in an organization. The application should allow users to filter employees by department and sort them by various attributes. Additionally, the application should have a dashboard that displays charts such as employees by department.

Project Requirements :

Functional Requirements

- The application should allow users to view all employees in the organization.
- The application should allow users to filter employees by department.
- The application should allow users to sort employees by various attributes such as name, department, salary, etc.
- The application should have a dashboard that displays charts such as employees by department.
- The application should be responsive and work on desktop and mobile devices.

Non-Functional Requirements

- The application should be secure and protect employee data.
- The application should be scalable and able to handle many employees.
- The application should be easy to use and intuitive.

Architecture

The application will be built using the following technologies:

- Frontend: Angular
- Backend: Java Spring Boot
- Database: PostgreSQL

The frontend will be responsible for displaying the user interface and sending requests to the backend. The backend will handle the requests and communicate with the database to retrieve employee data. The database will store employee data and provide a way to query the data.

User Interface

The user interface will consist of the following pages:

Home Page

The home page will display a list of all employees in the organization. The user will be able to filter employees by department and sort them by various attributes.

Dashboard

The dashboard will display charts such as employees by department.

Data Model

The employee data model will consist of the following attributes:

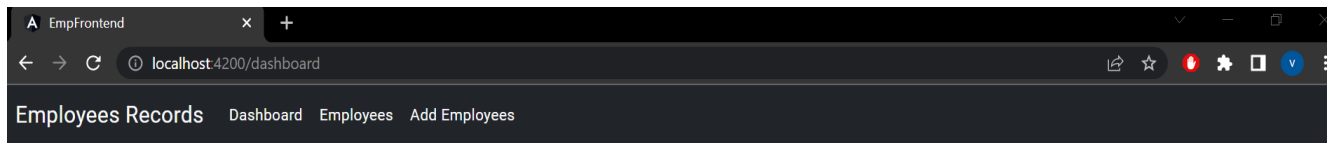
- Name: The name of the employee.
- Email: The email of the employee.
- Phone: The phone of the employee.
- Address: The address of the employee.
- Department: The department the employee belongs to.
- Job Title: The Job Title of the employee.
- Manager: The manager of the employee.
- Hire Date: The date the employee was hired.

API Endpoints

The following API endpoints will be created:

- **/api/employee/getAllEmployee** - GET - Returns a list of all employees.
- **/api/employee/add** – POST – Add employee data to database
- **/api/employee/getEmployeeByDept/:department** - GET - Returns a list of employees in a specific department.
- **/api/employee/getEmployeeByManager/:Manager** - GET - Returns a list of employees in a specific Manager.
- **/api/employee/getEmployeeByJob/:JobTitle** - GET - Returns a list of employees in a specific JobTitle.

Screenshots of Project



DashBoard

Employee Department

Support

Employee Job Title

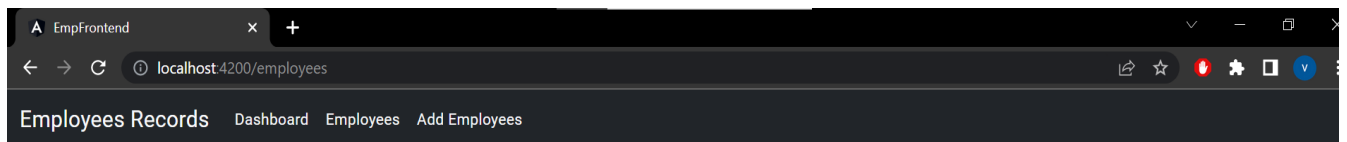
▼

Employee Manager

▼

Employees Data

ID	Name	Email	Phone	Address	Department	Job Title	Manager	Hire Date
202	Yash	yash@gmail.com	12454	Bang	Support	Intern	kiran	09/01/2023
203	Rahul	Rahul@gmail.com	12454	Bang	Support	Intern	kiran	09/01/2023
252	Mansi	Mansi@gmail.com	12454	Bang	Support	Developer	Basha	09/01/2023



List of All Employees								
#	Name	Email	Phone	Address	Department	Job Title	Manager	Hire
103	Vrushant Domde	Vrushant@gmail.com	12345	Nagpur	IT	developer_Intern	kiran	09/01/2023
152	Tanmay Datey	Tanmay@gmail.com	12454	Pune	IT	Intern	kiran	09/01/2023
202	Yash	yash@gmail.com	12454	Bang	Support	Intern	kiran	09/01/2023
203	Rahul	Rahul@gmail.com	12454	Bang	Support	Intern	kiran	09/01/2023
252	Mansi	Mansi@gmail.com	12454	Bang	Support	Developer	Basha	09/01/2023
304	harshal	email@gmail.com	648412121545	address	App	Manager	Vrushant	2023-03-01
305	Pooja	pooja@gmail.com	123456	pune	CS	coder	Alia	2023-02-16
306	Shreyash	shre@gmail.com	234	Pune	Testing	coder	Alia	2023-03-17
307	Rohit	rohit@gmail.com	5678	Nagpur	Testing	Administrator	Neha	2023-03-04

EmpFrontend

localhost:4200/addEmployee

Employees RecordsDashboardEmployeesAdd Employees

Add Employee

Employee Name

Vrushant

Employee Email

vrushant@gmail.com

Employee Phone

1234455

Employee Address

pune

Employee Department

App Engineering

Employee Job Title

Developer

Employee Manager

Sumit

Employee Hire Date

03/01/2023

Submit

EmpFrontend

localhost:4200/dashboard

Employees RecordsDashboardEmployeesAdd Employees

DashBoard

Employee Department

Employee Job Title

Employee Manager

Employees Data

ID	Name ↑	Email	Phone	Address	Department	Job Title	Manager	Hire Date
252	Mansi	Mansi@gmail.com	12454	Bang	Support	Developer	Basha	09/01/2023
305	Pooja	pooja@gmail.com	123456	pune	CS	coder	Alia	2023-02-16
203	Rahul	Rahul@gmail.com	12454	Bang	Support	Intern	kiran	09/01/2023
307	Rohit	rohit@gmail.com	5678	Nagpur	Testing	Administrator	Neha	2023-03-04
306	Shreyash	shre@gmail.com	234	Pune	Testing	coder	Alia	2023-03-17

Conclusion

In summary, this project aims to develop an application that displays employees in an organization. The application will allow users to filter employees by department and sort them by various attributes. Additionally, the application will have a dashboard that displays charts such as employees by department. The application will be built using Angular, Java Spring Boot, PostgreSQL.