Employee Management System Documentation

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1.Project Overview

The Employee Management System is a Spring Boot application that provides functionalities to add, search, update, and delete employee details. The application uses MySQL as the database and Thymeleaf for the frontend.

2.Setup and Configuration

Prerequisites
- JDK 17
- Maven 3.8.6
- MySQL 8.0
- An IDE like IntelliJ or Eclipse

Clone the Repository

Github link for project repository

https:// github.com/Azhar- Ajum/guvi_project

MySQL Configuration

- Create a database named employee_management in MySQL workspace

Update application properties

- Update src/main/resources/application.properties with your MySQL database details in project

```
spring.datasource.url=jdbc:mysql://localhost:3306/employee_management
spring.datasource.username=root
spring.datasource.password=your_password
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
```

Build and Run the application

The application will be available at http://localhost:8080

3.Functionalities

With this application we can perform curd operation add, view, search, and delete of employee data and with this additionally to make search easy I added functionality we can either search by id or by name.

4.Data Validation Rules

Employee Entity

ID:

Not null
Positive number

Name:

Not null

Email:

Not null
Valid email format

Age:

Not null
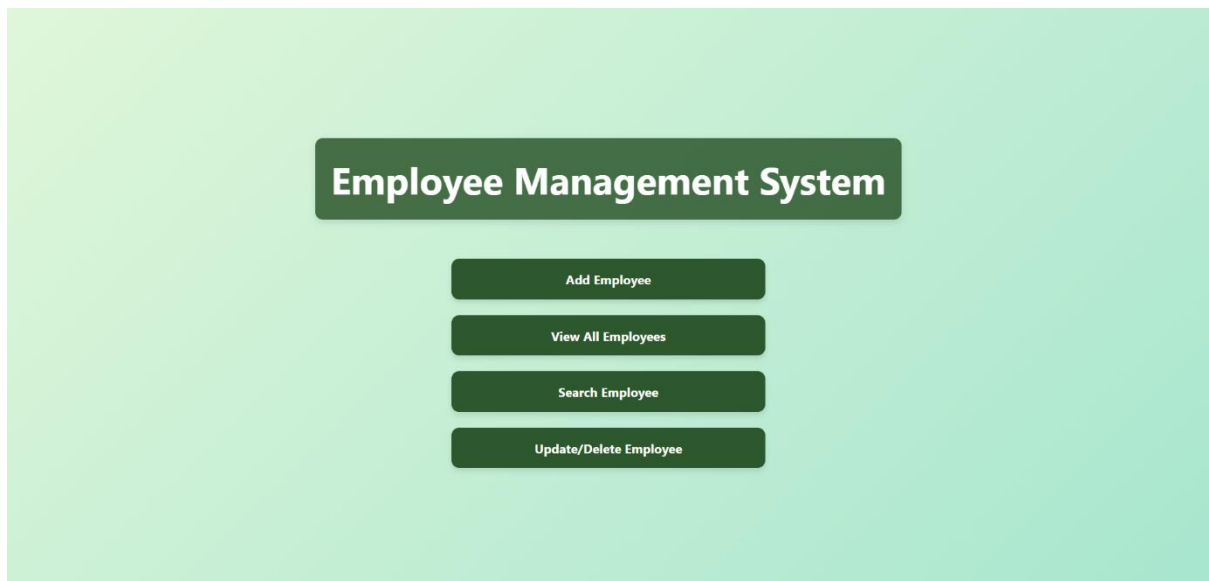Positive number and Minimum value(age): 18

Error Handling

The application handles validation errors and returns appropriate responses.
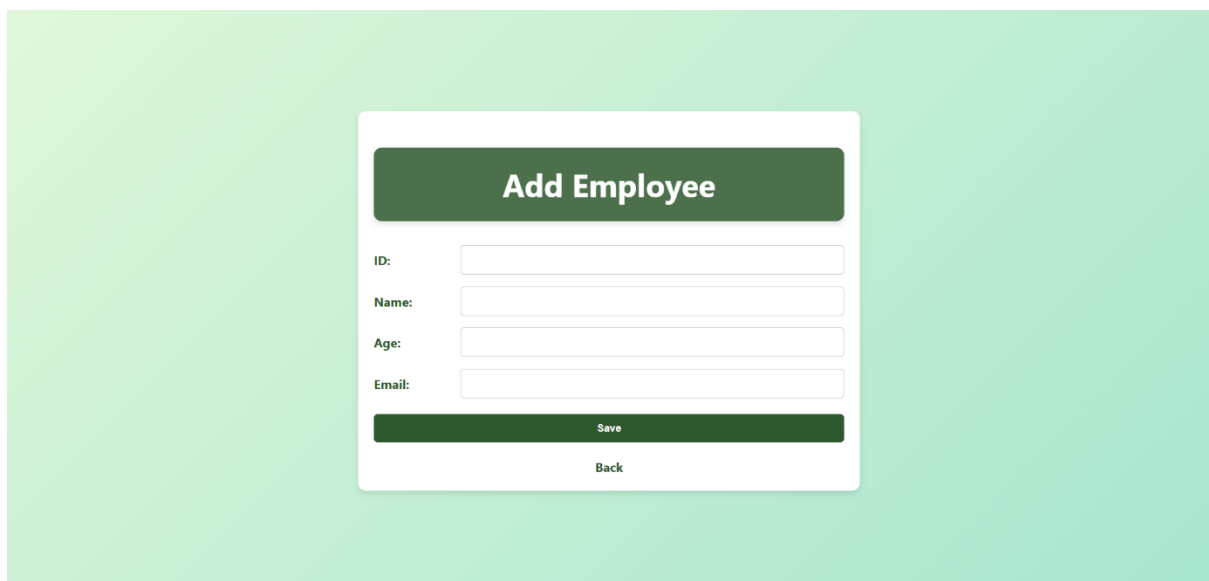
5.FrontEnd and overview of Application

index.html

- localhost:8080/   - home page of application

addemployee.html

- localhost:8080/addemployee   - add new employee here

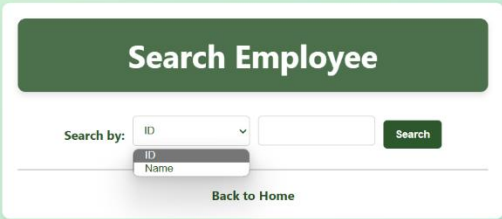## View-all.html

- localhost:8080/view-all - views all employess
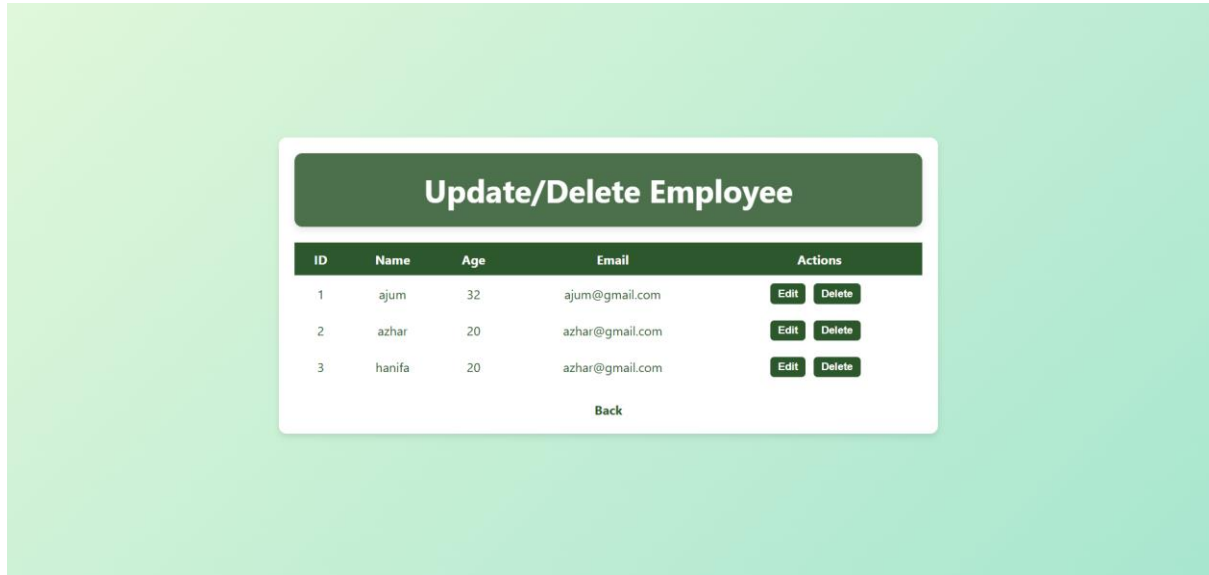

Search.html

- localhost:8080/search – we can search either by id/ by name

Update-delete.html

- localhost:8080/update-delete – we can edit and also delete employee details

6.Conclusion

This documentation provides an overview of the Employee Management System, including setup, configuration, running the application, and data validation rules. Follow the provided instructions to get the application up and running. For any issues, refer to the official Spring Boot and MySQL documentation.