Employee-Management-System

This repository consists of Java Program for Employee Management System. In this repository I have created a CRUD operation for Employee Management System which consists of 4 different operation.
(1) Adding Employee
(2) Removing Employee
(3) Updating Employee
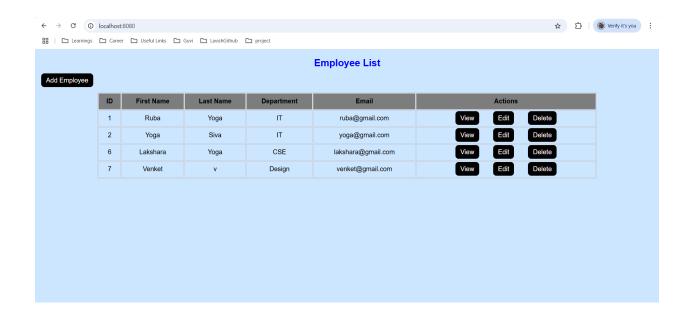(4) Viewing details of Employee

Technology Stack:

Backend:

- Spring Boot: The backend of the Employee Management System is built using Spring Boot, a Java-based framework known for its simplicity and ease of use. Spring Boot provides a robust and scalable foundation for developing enterprise-level applications.
- MySQL: The database layer is powered by MySQL, a reliable relational database management system. MySQL is utilized for storing and retrieving employee-related data, ensuring data integrity and efficiency in data management.
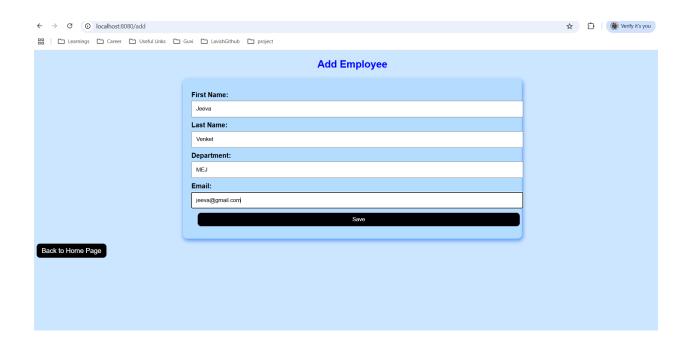
Frontend:

- HTML & CSS : The frontend of the application is developed using HTML, a powerful and dynamic front-end framework. Thymleaf facilitates the creation of a responsive and interactive user interface, enabling seamless communication with the backend.
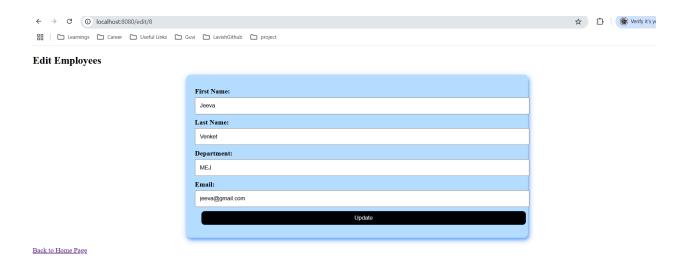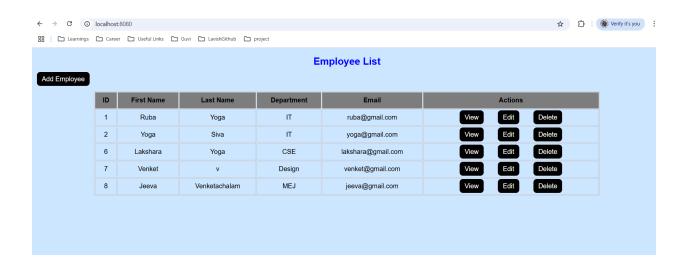
Home Page:

Employee List

Add Employee

ID	First Name	Last Name	Department	Email	Actions
1	Ruba	Yoga	IT	ruba@gmail.com	View Edit Delete
2	Yoga	Siva	IT	yoga@gmail.com	View Edit Delete
6	Lakshara	Yoga	CSE	lakshara@gmail.com	View Edit Delete
7	Venket	v	Design	venket@gmail.com	View Edit Delete

Add New Employee

Add Employee

First Name:

Jeeva

Last Name:

Venket

Department:

MEJ

Email:

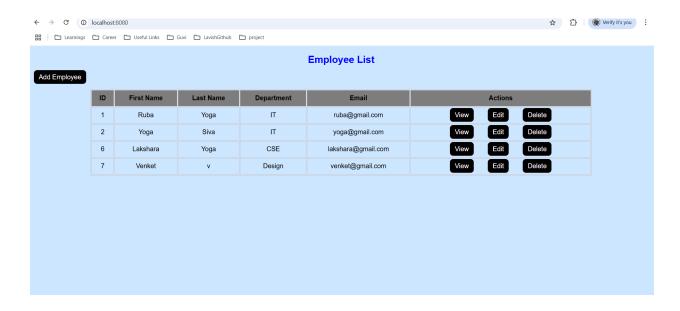jeeva@gmail.com

Save

Back to Home Page

Update Existing Employee

View Employee Page

Delete Employee

Key Features:

1. **Home Page:**
   ○ The home page serves as the central hub, providing users with an intuitive and user-friendly interface. It includes quick links to essential features and announcements.
2. **View All Employee:**
   ○ Users, including administrators, can easily access a comprehensive list of all employees within the organization. The interface allows for efficient sorting, searching, and filtering of employee data.
3. **Add Employee Page:**
   ○ The system offers a dedicated page for adding new employees, featuring a well-designed form with form validation. This ensures that accurate and complete information is entered for each employee.
4. **Admin Panel:**
   ○ The admin panel is a secure section accessible only to authorized users. Admins have the authority to manage user roles, access control, and other administrative tasks.
5. **CRUD Operations:**
   ○ The system supports all essential CRUD (Create, Read, Update, Delete) operations. Users can add new employees, update existing records,

delete unnecessary entries, and view detailed information about each
employee.
6. **Form Validation**:
    ○ Robust form validation mechanisms are implemented to ensure the
    accuracy and completeness of data entered by users. This helps in
    maintaining data integrity and consistency.

Backend Technology:

The backend, powered by Spring Boot, handles data processing, business logic, and
database interactions. It exposes RESTful APIs that the frontend consumes for
seamless communication. Spring Boot's modular and organized structure simplifies
code maintenance and promotes scalability.

Frontend Technology:

HTML, on the frontend, provides a dynamic and responsive user interface. It facilitates
the creation of modular components and services, enhancing code maintainability and
reusability. Thymleaftwo-way data binding ensures real-time updates between the user
interface and backend data.

In conclusion, the Employee Management System offers a robust solution for
organizations to efficiently manage their workforce. The use of Spring Boot,Thymleaf,
and MySQL ensures a scalable, secure, and user-friendly platform for handling various
employee-related tasks.