

Detailed instructions on how to use the software.

Using the Employee Management System - Detailed Instructions:

Launch the Spring Boot Backend:

- Open your preferred IDE and run the Spring Boot application.
- Confirm successful startup by checking the console logs for any errors.

Initialize the Database:

- Go to <http://localhost:8080/h2-console> to access the H2 database console.
- Use the login information provided in the program to log in. with the JDBC URL `jdbc:h2:mem:testdb`, properties file.
- If required, run SQL procedures or manually insert sample data.

Launch the React Frontend:

- Open a new terminal and navigate to the React app directory: `cd employee-management-react`.
- Install dependencies: `npm install`.
- Run the React app: `npm start`.
- After starting the frontend development server, the application may be accessed via <http://localhost:3000>.

View Employee List:

- Launch a browser and navigate to <http://localhost:3000>.
- The current employee records that were retrieved from the Spring Boot backend should be shown on the Employee List page.

Add a New Employee:

- Click the "Add Employee" button to navigate to the Add Employee page.
- Fill in the required details in the form (e.g., first name, last name, email) and click "Save"
- After the new employee is added to the list, you will be taken to the Employee List page.

Edit an Employee:

- Select the "Edit" button next to an employee on the Employee List page.
- Click "Save" after making changes to the personnel details.
- The employee list has to be updated with the modifications.

Delete an Employee:

- On the Employee List page, click the "Delete" button next to an employee.
- Confirm the deletion.
- The employee should be removed from the list.

Test API Calls:

- Press F12 to open the developer tools in the browser.
- Pick the "Network" tab to access.
- Use the user interface to perform CRUD activities and watch the accompanying API calls to the Spring Boot backend.

Additional Features:

- Explore additional features such as searching for employees or implementing pagination.
- Intentionally provide incorrect data to test error handling and validation.

Deployment (Optional):

- Build the React application for production using `npm run build` if you're delivering to a server or cloud platform.
- In accordance with your selected hosting solution, deploy the React frontend and the Spring Boot backend.
- If the backend is hosted on a different server, update the API URLs in the React application.