

WEEKLY PROJECT PROGRESS REPORT – 3

In the third week, key aspects of my contributions include:

Front-End Development (React):

- Developed the *AddEmployeeComponent* in React, a dynamic UI for adding and updating employee information.
- Implemented responsive navigation using React Router (*useHistory* and *useParams*).
- Made sure that form validation, conditional rendering, and user-friendly navigation controls all contributed to a flawless user experience.

Back-End Integration (Spring Data JPA):

- Contributed to the design and implementation of the *EmployeeRepository* interface.
- Leveraged Spring Data JPA for streamlined database access and CRUD operations on the Employee entity.

Exception Handling:

- Added a custom exception called *ResourceNotFoundException* to handle situations in which a resource request is unsuccessfully fulfilled.
- Made sure that a *404 HTTP* response status was used for normal exception handling.

Together, these additions improve the project's effectiveness, user interface, and error handling, offering a complete solution for our Spring Boot application's personnel data administration.

I am proud that,

- 1) I used simple React tools to make the project efficient and the interface user-friendly.
- 2) I took the lead in making a user-friendly React interface.
- 3) I showcased problem-solving skills by implementing form validation, improving user interactions, and preventing potential issues.