Week 4 Progress:

During the fourth week of our PulseHR Employee Management System project, I continued to contribute to both frontend and backend development.

Frontend - React Component Enhancement:

I focused on enhancing the List Employee component. Here are the features I implemented:

- Tried to efficiently manage and display many employee records. This ensures a smoother user experience by dividing the employee list into manageable pages.
- **Sorting Functionality:** Implemented sorting functionality for the employee list based on various parameters such as employee ID, first name, last name, etc. This allows users to easily organize and find specific records.
- **UI/UX Improvements:** Worked on refining the user interface and experience, including styling adjustments and responsive design to enhance the overall look and feel of the employee list.

Backend - Spring Boot Application:

- In the backend, I further refined the Spring Boot application, making it more robust.
- **Security Implementation:** Implemented security measures, such as authentication and authorization, to ensure that only authorized users can perform certain operations like adding, updating, or deleting employees.
- **Logging:** Integrated logging mechanisms to keep track of important events and actions within the application. This helps in monitoring and debugging the system.
- **Additional RESTful Endpoints:** Expanded the existing RESTful API by adding endpoints to retrieve employee details based on different criteria (e.g., by department, by role), providing more flexibility for frontend interactions.
- **Testing and Validation:** Conducted thorough testing of the backend functionality, including input validation and error handling, to ensure the reliability and security of the system.

Overall, my contributions in Week 4 aimed at enhancing both the frontend and backend aspects of the PulseHR Employee Management System, making it more user-friendly, secure, and feature complete. I am proud of the progress made, and I look forward to the continued development of the project next week.