Full Stack developer test

You have to build a clone version of the page dev.viact.net that allows users to sign up and log in. The application should consist of two parts, a frontend built with ReactJS with Material UI and a backend built with NestJS using MySQL as the database. The frontend should be able to send HTTP requests to the backend to sign up and login.

Requirements

1. Backend Requirements:
- Use NestJS to build the backend.
- Use MySQL to store user data.
- Implement a REST API for handling user authentication.
- Use TypeORM to connect to the MySQL database.
- Implement authentication and authorization using JSON Web Tokens (JWT) for securing the API endpoints.
- Implement password hashing and salt generation for storing user passwords securely.
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2. Frontend Requirements:
- Clone the UI of dev.viact.net
- Use ReactJS with Material UI to build the frontend.
- Implement a login form that allows users to log in.
- Implement a signup form that allows users to create an account.
- Use the Axios library to send HTTP requests to the backend.
- Use React Hook to manage state.

3. General Requirements:
- Use Git for version control.
- Write clean and maintainable code.
- Use appropriate design patterns and principles.
- Dockerize the application and/or deploy the application to a cloud platform of your choice.

Deliverables

- Source code for both the frontend and backend.
- Dockerfile and docker-compose.yml files. (if you submit the docker for deployment)
- Deployment instructions.

Submission

- Upload your code to a Git repository (e.g. GitHub or GitLab).
- Send the repository link along with deployment instructions to the hiring team.

Evaluation

- The application should meet all the requirements.
- Code quality and maintainability will be evaluated.
- Test coverage will be evaluated.
- The deployment process will be evaluated.