Software Engineer

Task: Build a Messaging Service Prototype

Requirements -

1. **Messaging Service Features:** Your prototype should include the following core features:
   - **User registration** and **authentication**.
   - Sending and receiving **text messages between users.**
   - **Group chat** functionality.
   - **Real-time message** updates.
2. **Optional Features:** You can also include these features:
   - **AI powered chatbot** for user.
   - **Video calling or audio calling** feature.
3. **Design**: **User interface** should be **clean and intuitive**.
4. **App type:** Any **web app** (preferably reactjs) or **mobile app** can be used. Using specific practices such as Atomic Design would be a plus.
5. **Backend:** Develop **REST APIs** using best practices. **Any programming language** can be used (preferably python and nodejs). Also choose between noSQL and SQL database.
6. **Documentation:** Create a **system design document** and also provide **clear documentation** on how to set up and run your prototype, including any dependencies and libraries used and also provide details about why you used them.
7. **Deployment (Optional):** If you have the capability, **deploy** your prototype on a cloud platform (e.g., AWS, Heroku) and provide access for testing.

Evaluation

Evaluation will be based on **comprehensive evaluation** of the following aspects. *Not only pure technical perspectives.

- System Design
- Coding
- Originality of the system concept and its social impact.
- UI,UX design

Submission Details

Please push your code and design document to your GitHub repository.

NOTE

-Please describe your name, university, department in the README. This is to associate your repository with your intern application.

-Please notify it by **sending email to the following addresses**. Please contain the url of the repository.

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Reference

- AI
- I'm beside you solution page where AI functionalities are integrated
  https://solutions.imbesideyou.com/
- Coding
  - Frontend
    Atomic design
    https://bradfrost.com/blog/post/atomic-web-design
    https://github.com/danilowoz/react-atomic-design

  - Backend
    REST API practice
    https://www.vinaysahni.com/best-practices-for-a-pragmatic-restful-api