

CLOUD TALK

Names and Roles:

1. Venkata Sai Sriram Valluri – 16352224

Roles and Responsibilities:

Web App Development: Will be contributing to develop the Web Application for user to have an account and will be handling login screen and register screen.

Model Design and Framework Selection: React is used to build the frontend UI and manage the component-based architecture.

Integration with the Firebase database: Will be handling the integration of the application with the firebase database.

2. Siva Sai Maturi – 16341232

Roles and Responsibilities:

Web App Development: Will be contributing to develop the Web Application for user to have an account and will be handling groups related screen.

Deploying in GitHub: Deploying the project to GitHub.

3. Narendra Mamilla – 16351892

Roles and Responsibilities:

Web App Development: Will be contributing to develop the Web Application for user to have an account and will be handling inside component of group screen.

Authentication part for Firebase database: Will be handling the authentication part for the database.

4. Venkata Subbarao Gunturu – 16355321

Roles and Responsibilities:

Web App Development: Will be contributing to develop the Web Application for user to have an account and will be handling the flow between the users.

Testing the entire application: Will be responsible for checking the end-to-end flow of the application.

Motivation / Purpose:

The motivation and purpose behind developing a cloud-based messaging service application lie in the ever-evolving landscape of modern communication. With the increasing demand for real-time, efficient, and flexible interaction, such a platform becomes essential. It aims to provide users, whether individuals or organizations, with a seamless and accessible means of connecting, sharing information, and collaborating from anywhere in the world. This technology-driven solution seeks to transcend geographical boundaries, enhance convenience, and boost productivity, making it an indispensable tool for both personal and professional communication needs. By harnessing the power of cloud-based infrastructure, the application aims to deliver reliability, scalability, and a user-centric experience, ultimately bridging the gaps in our connected world.

Utilized cloud technologies and other technologies:

1. **Firebase's Cloud Firestore database:** The Chat App integrates with Firebase's Firestore database to store chat messages, user information, and group details. Firestore provides a scalable and reliable cloud-based database solution.
2. **React JS:** React is used to build the frontend UI and manage the component-based architecture. React components are used to create the different screens, handle user interactions, and render dynamic content. React's declarative nature and virtual DOM efficiently update the UI based on changes in application state, providing a smooth and responsive user experience. Additionally, React hooks, such as `useState` and `useEffect`, are used to manage state and handle side effects within the app.
3. **HTML**
4. **CSS**