

Documentation of Messaging Service Prototype (ReactChat)

Basic Information :

I have made it using ReactJS , Redux , Sass(CSS) and storing the data via FireBase.

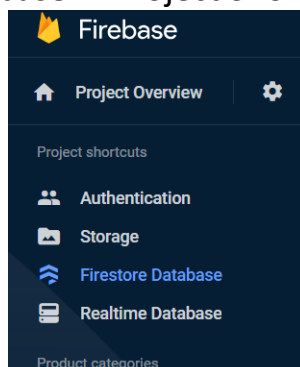
Basic Steps to start the Project :

1. `npx create-react-app react-chat`
2. `yarn add sass`

Q . Why I used sass over css ?

- Sass facilitates you to write clean, easy and less CSS in a programming construct.
- It contains fewer codes so you can write CSS quicker.
- It is more stable, powerful, and elegant because it is an extension of CSS. So, it is easy for designers and developers to work more efficiently and quickly.
- It is compatible with all versions of CSS. So, you can use any available CSS libraries.
- It provides nesting so you can use nested syntax and useful functions like color manipulation, math functions and other values.

3. `npm start`
4. `yarn add firebase` (Create account on firebase and create your project there , then enable authentication option(enable email and password option) and firestore database in Project Shortcut option .



5. Then I followed basic steps to deploy project on github.

System Design (strategic Steps to implement the project) :

1. I started with React Login and Register Page Design.
2. React Chat App Design
3. Sass Responsive Design with Mixin
4. React Firebase v9 Authentication (Login – Register)
5. React Router Dom Protected Route for navigating through different pages
6. React Firebase Login with Email and Password
7. Firebase Chat App: Search User
8. Firebase Chat App Database Structure
9. Fetch Chat Conversation
10. React Firebase to Fetch Private Chat Messages
11. React Firebase to Send a Real-time Chat Message
12. React to Scroll to the Latest Message
13. Deploying App on GitHub

Some Features of App :

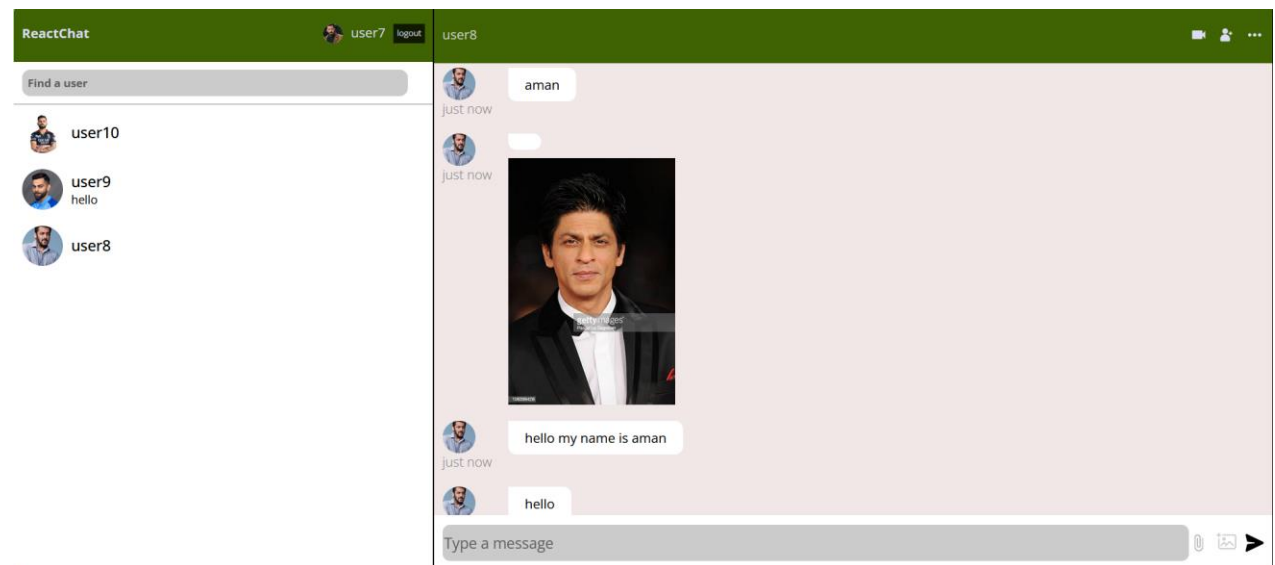
1. First Register with name , email id , password (min. 6 characters needed) and then add your avatar , then login with your email id and password. (All the information regarding users register and login will be stored in database) .

You do have an account? [Login](#)

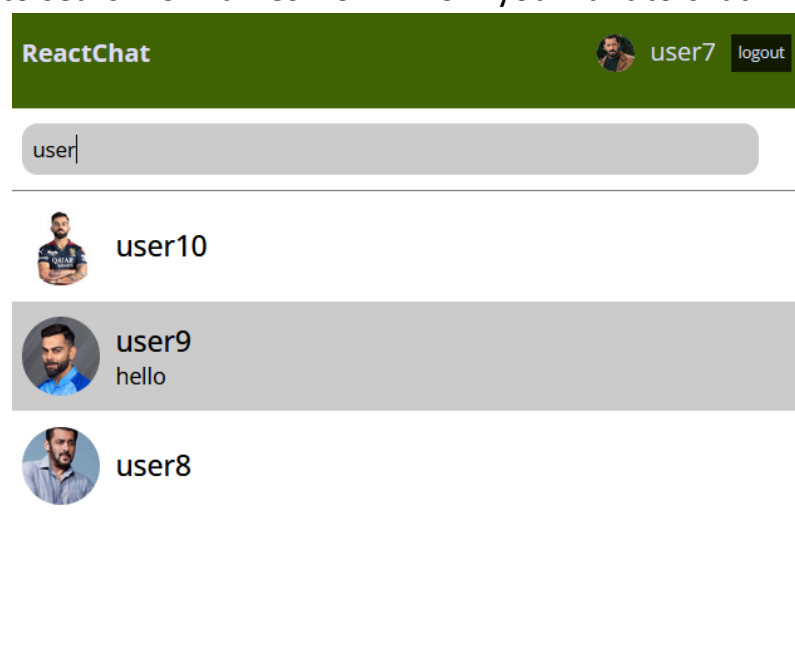
You don't have an account? [Register](#)

[illegible]

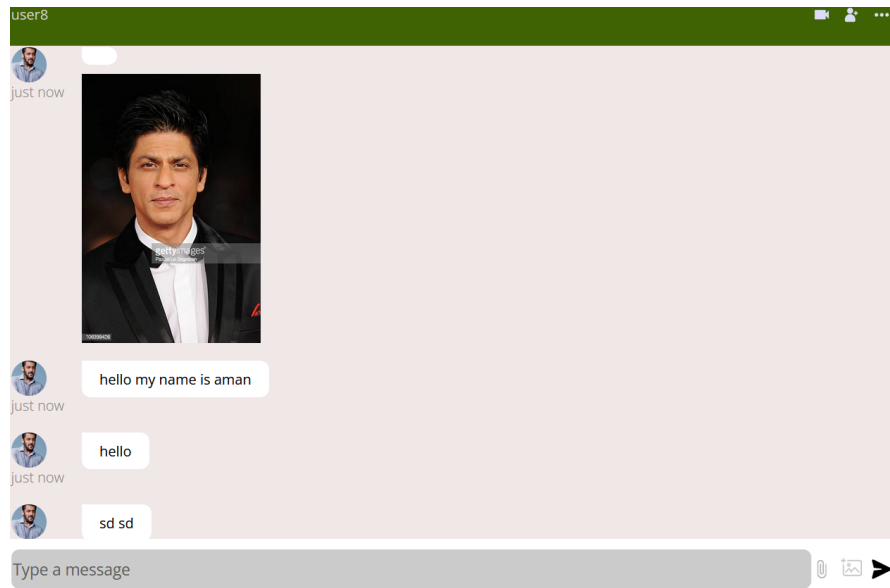
2. When you enter the main interface you can see your avatar and name .



3. You have to search for names from whom you want to chat .



4. In chat section you can send images , text msgs.



Features Missing in the app :

1. Video and audio call (I will enable in future for sure) .
2. You have to search for names from whom you want to chat.
3. Can't send pdfs documents for now but I will enable it in future for sure.

Thank You