REAL TIME CHATTING APPLICATION
Project Report Presentation

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Major Project (IMW651)

Degree : BCA(MAWT)

Project Guide:
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Team Details

TEERTHANKER MAHAVEER UNIVERSITY

Student Name	Role
Bhuvnesh Saini	Designing , Front-end Development
Keshav Saini	Backend Development

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Project Brief

The main objective of this project is to allow each and every person can get connected to each other, like a normal chat application.
It's a web based application and it is the real time chatting application.
It manage the details of the Chat user, Chat history.

Functions:

- Login/Signup with multiple methods.
- Users can upload their profile photo.
- Send and receive unlimited length of text message.
- User can send emoji and photos.
- Manage the information of user chat.
- Shows the information and description of Chat History.

The user interacts with the application using a GUI or we know that this application is web based so it is supported by all the browsers .

- The GUI operates in two forms, the list form & the chat form.

List Form :

In this form, or we can say that it can be a sidebar of the application where all the users names are listed below and also have a search bar to search any specific user.

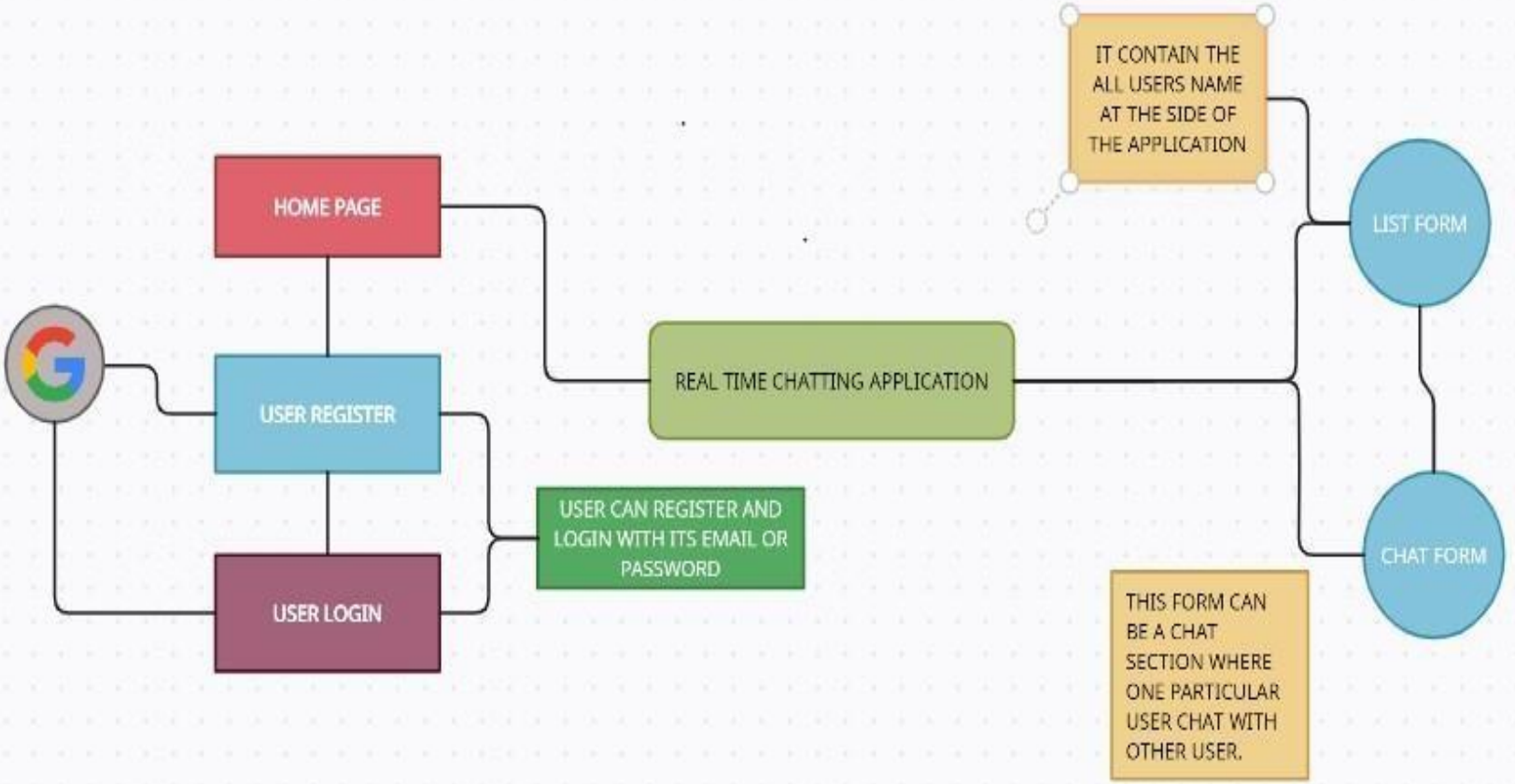
Chat Form :

This form is really called only when an element or user chat profile is selected from the List form. In this form, a connection is created between the host and the selected user with the help of socket.

Technologies/ Tools to be used

- Front End:
  1. HTML, CSS ,
  2. Reactjs(Framework)
  3. Bootstrap/Tailwind CSS
- Back End:
  1. Nodejs
  2. Socket.io
- Database:
  1. Firebase/ Mongo DB
- Tools:
  1. VS Code

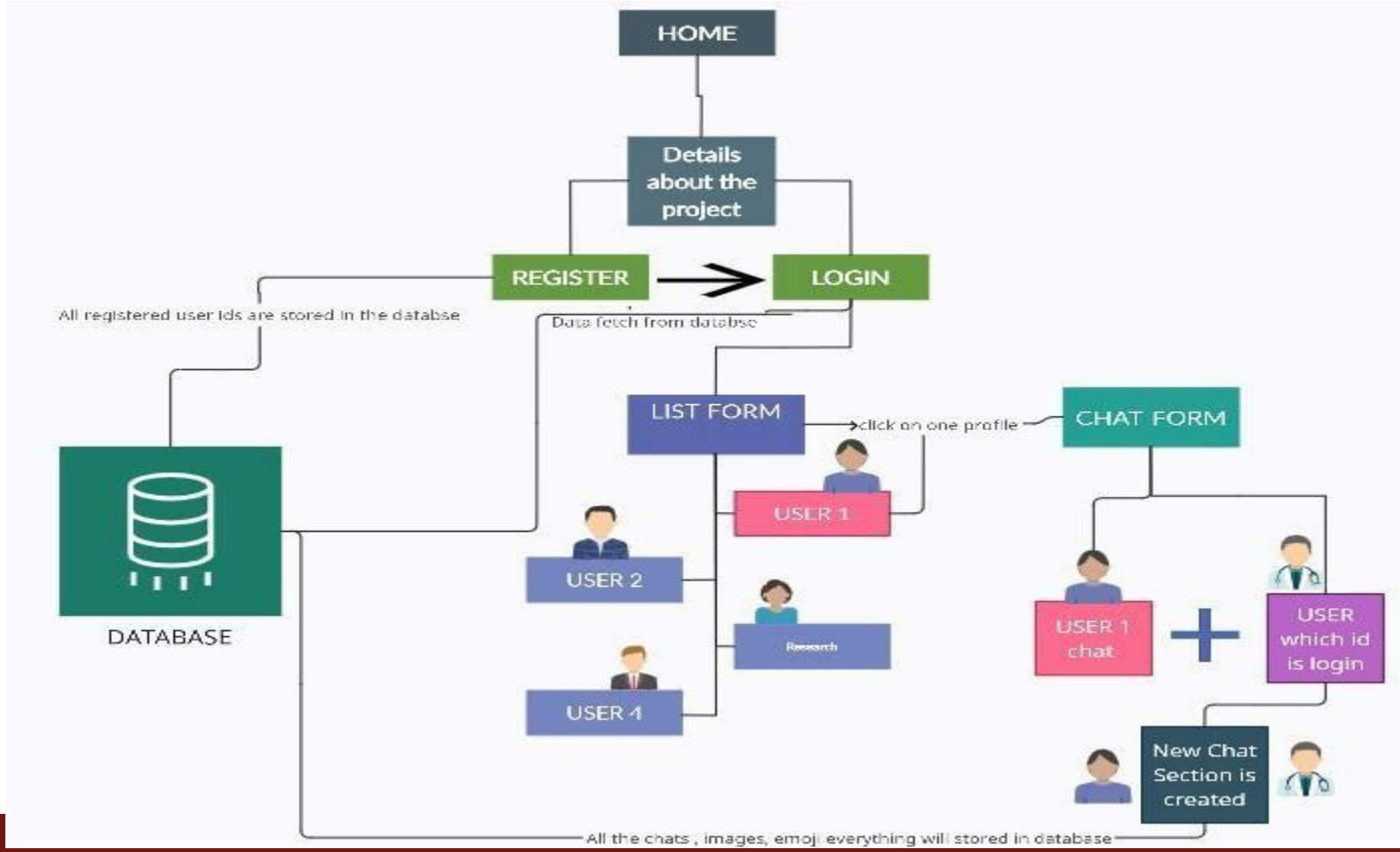
Context Diagram (Overall Project)



Various modules in project:

- Full UI design module.
- User Registration and login Module.
- Text Message sending module.
- Image and Emoji sending module.
- Chat History module.

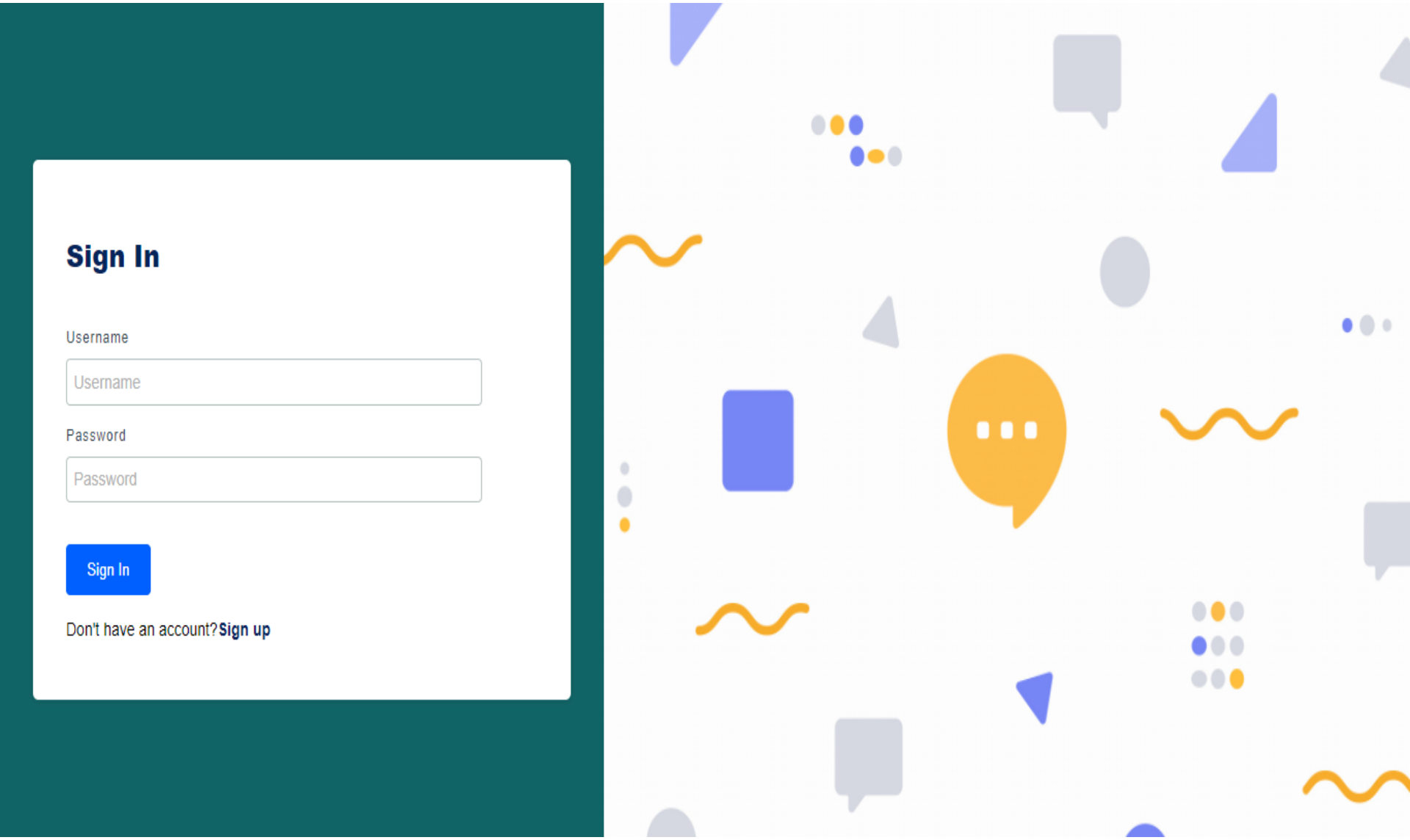
Data Flow Diagram (DFD)



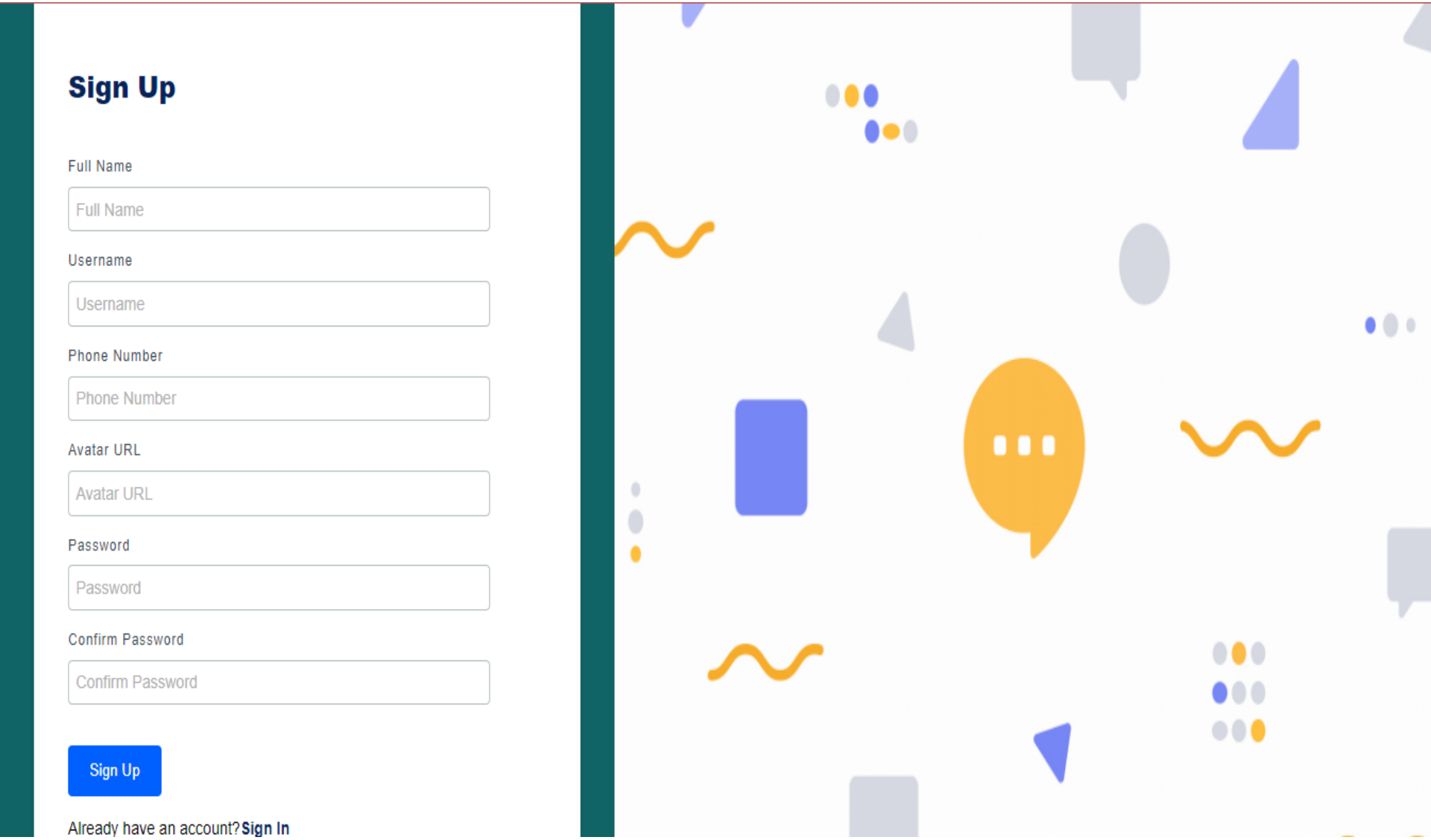
Strong Points of Real Time Chatting Application :

- Speed in usage.
- Easy and friendly UI.
- Privacy Protection.
- No lose of data.
- Firebase database is used in it so it is easy to deploy the application.

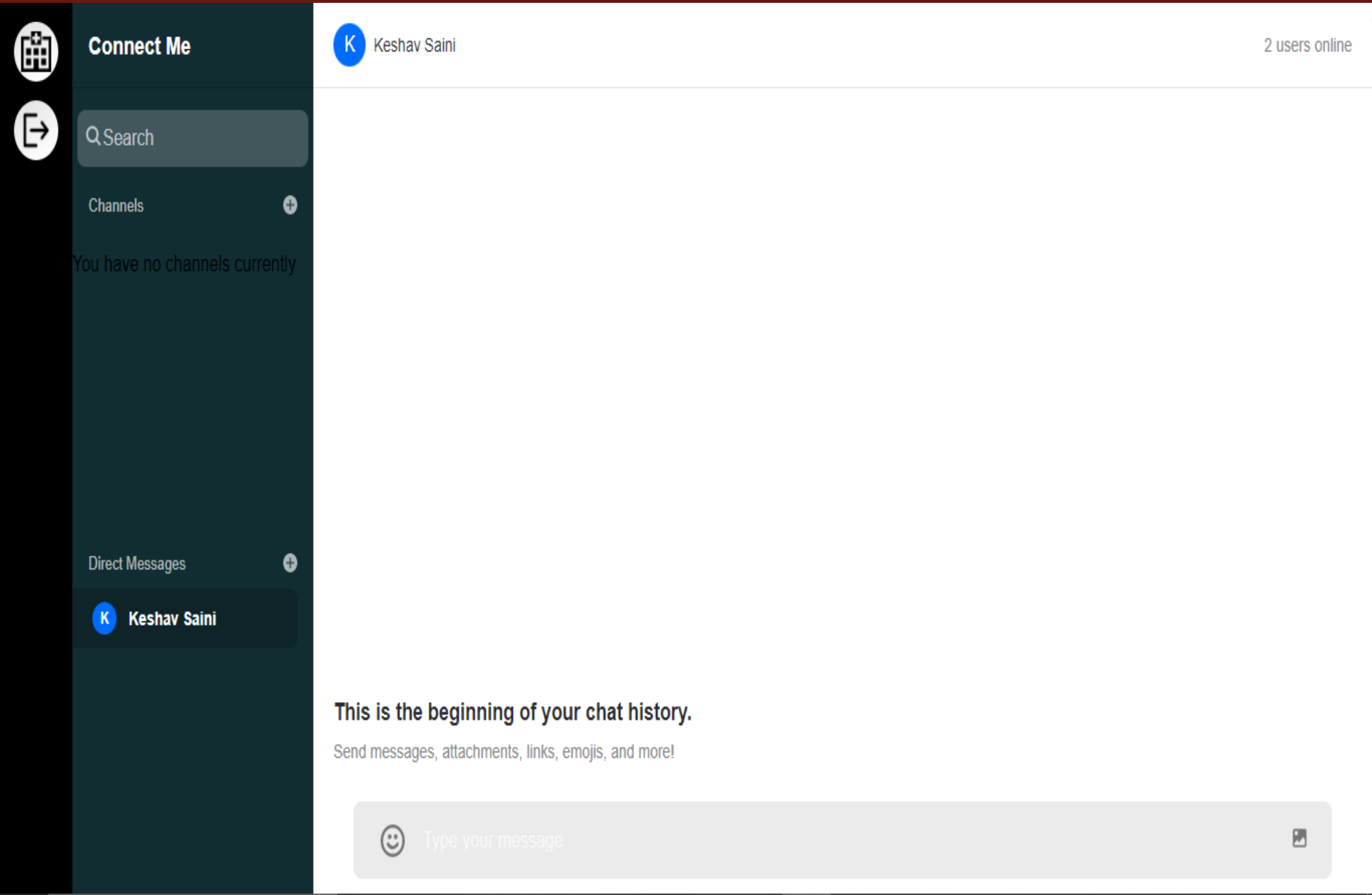
Login Page


Sign In
Username
Username
Password
Password
Sign In
Don't have an account?Sign up

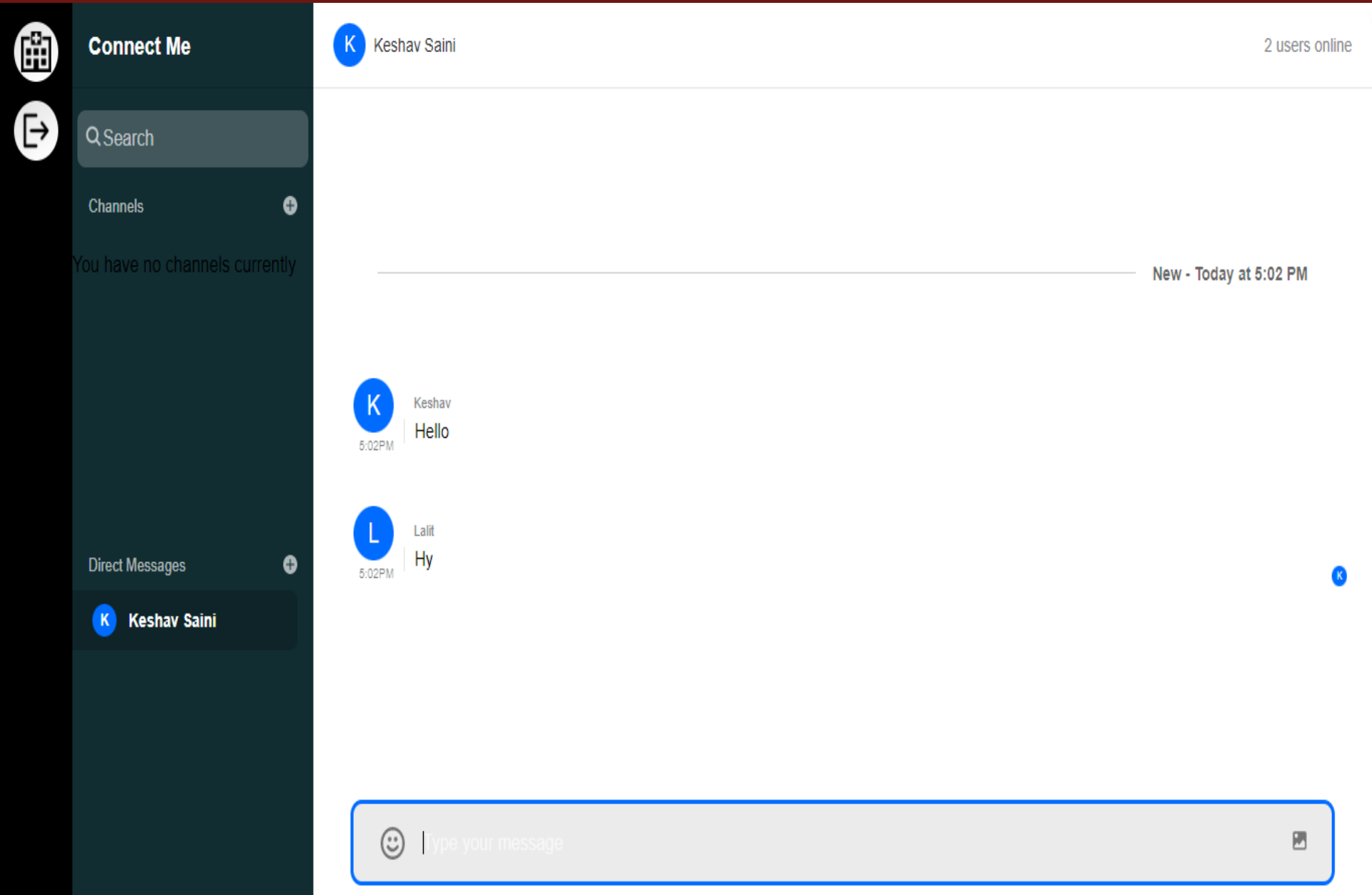
Sign-up Page


Sign Up
Full Name
Full Name
Username
Username
Phone Number
Phone Number
Avatar URL
Avatar URL
Password
Password
Confirm Password
Confirm Password
Sign Up
Already have an account? Sign In

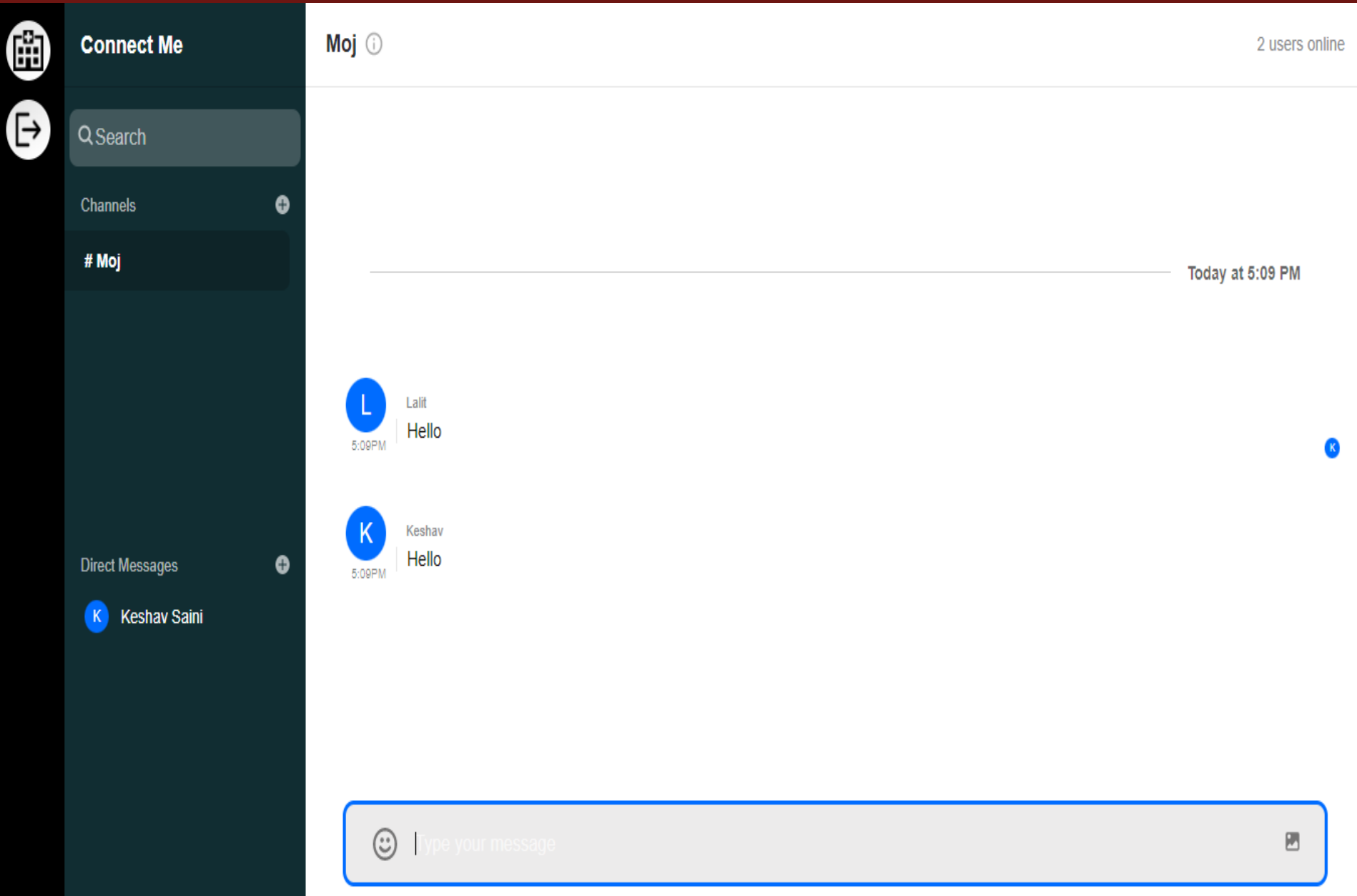
Home Page


Connect Me
Search
Channels
You have no channels currently
Direct Messages
Keshav Saini
K
Keshav Saini
2 users online
This is the beginning of your chat history.
Send messages, attachments, links, emojis, and more!
Type your message

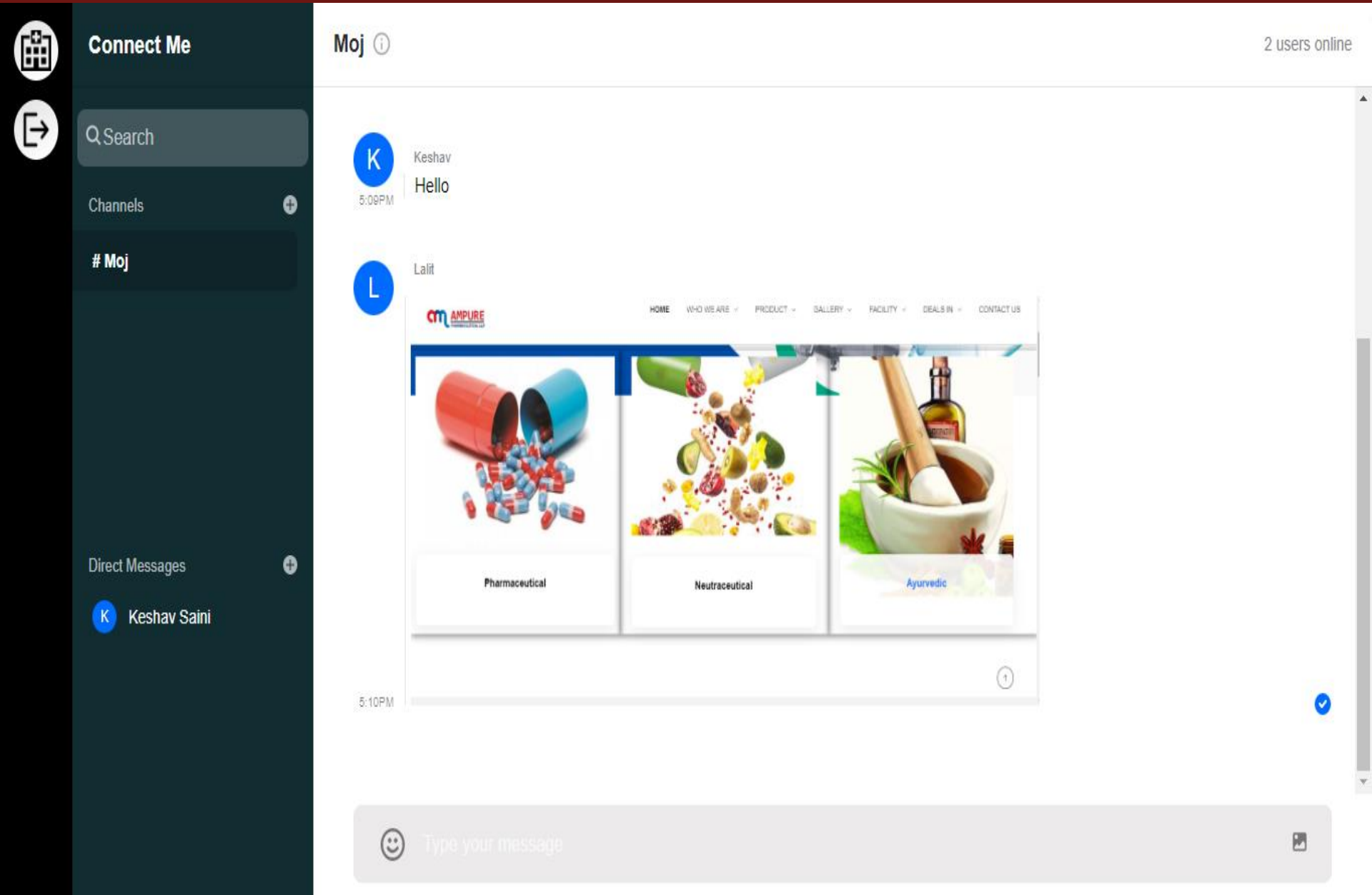
Chatting Feature



Group Chatting



Sending Images



Thanks