**sREACT CHAT APP**

This Chat application is built with React JS and Chat Engine.

Chat Engine provides the server to host the chat components.

In here users can create chat rooms and add other users to chat, share images, add avatars i.e. profile picture and get notification of message sent.

It has 5 modules-

1. ChatFeed

2. MyMessage

3. OthersMessage

4. MessageForm

5. LoginForm

I have worked on 3 message modules namely – MyMessage, OthersMessage and MessageForm.

1. In the MyMessage module the user message is rendered on the right hand side of the screen in a purple color bubble. This look is similar to what we can see on other chat application like whatsapp or skype or teams etc. In here the message corresponding to a perticular key is passed in props. Whenever the user is sends a text or an image, the type of message is verified. If it is a text, it is directly sent while in case of an image attcahment it is rendered in an image tag. The receipts of the messages are also handled by showing the avatars(profile picture) below the image or text sent.

2. OthersMessage module is a clone of MyMessage with the difference that the last message id is also shared in props along with the message. This is done to check if it is the first message by other user and accordingly, the avatars (profile pictures) of the other users are rendered first followed by their messages (image and text).

3. MessageForm provides the input text area for the user to type the text or attach an image to be sent. Here usestate hooks are used to store the currents state of the value entered and set the new value using setValue function. The value of useState hooks areis required to decide upon various event handlers to be used. In case of text messages OnChange and OnSubmit events are handled and the corresponding handleSubmit and handleChange handlers are called. HandleChange handler is used to show that the user is typing the text. In case of image attachment, handleUpload handler is called when the user clicks on upload button and the image file is sent. Here isTyping and sendMessage component are imported from react-chat-engine and the icons for image upload and send button are imported from @ant-design/icons.