

#contacts

```
[
  {
    _id: new ObjectId('66e48153ebd8eef9f2ae137a'),
    lastMessageTime: 2024-10-19T18:58:49.859Z,
    email: 'aditya',
    firstName: 'Aditya',
    lastName: 'Shinde',
    image: null,
    color: 2
  },
  {
    _id: new ObjectId('66fe43a06fd49e3352d57f95'),
    lastMessageTime: 2024-10-19T05:52:35.543Z,
    email: 'tilakRvermaPilot@gmail.com',
    firstName: 'tilak',
    lastName: 'verma',
    image:
      'upload/profiles/1727939515103wp9052004-hd-4k-art-wallpapers.jpg'
  },
  {
    color: 3
  },
]
```

#each contact after selecting from the list

```
each contact: {_id: '66fe43a06fd49e3352d57f95',
lastMessageTime: '2024-10-19T05:52:35.543Z',
email: 'tilakRvermaPilot@gmail.com',
firstName: 'tilak',
lastName: 'verma', ...}
```

#####

```
#####  
#####
```

#sending message

```
1)const handleSendMessage = async () => {
```

```
  if(selectedChatType ==="contact" ){  
    socket.emit("sendMessage",{  
      sender:userInfo.id,  
      content:message,  
      recipient:selectedChatData._id,  
      messageType:"text",  
      fileUrl:undefined,
```

```
    })
```

```
  }
```

```
};
```

@@@ socket.js(backend)

```
22222) socket.on("sendMessage",sendMessage );
```

```
const sendMessage =async(message)=>{  
  const senderSocketId = userSocketMap.get(message.sender);  
  const recipientSocketId =  
userSocketMap.get(message.recipient);  
  // Create the message  
  const createdMessage = await Message.create(message);
```

```
  // Finding the created message by its ID and populate sender  
and recipient details  
  const messageData =await
```

```

Message.findById(createdMessage._id)
    .populate("sender","id email firstName lastName image color")
    .populate("recipient","id email firstName lastName image color")
    .exec();

    if(recipientSocketId){

io.to(recipientSocketId).emit("recieveMessage",messageData);
    }

    //confirmation message to sender
    if(senderSocketId){
        io.to(senderSocketId).emit("recieveMessage",messageData);
    }

}

```

||||| data generated by populate function (messageData)

```

{
  "_id": "64abc12345...",
  "message": "Hello!",

  "sender": {
    "id": "64f123abc...",
    "email": "sender@example.com",
    "firstName": "John",
    "lastName": "Doe",
    "image": "profile.jpg",
    "color": "#ff0000"
  },

  "recipient": {
    "id": "64f456def...",
    "email": "recipient@example.com",
    "firstName": "Jane",
    "lastName": "Smith",
    "image": "profile2.jpg",

```

```

    "color": "#00ff00"
  }
}

```

@@@socketContext.jsx

```

socket.current.on("recieveMessage",handleRecieveMessage);

```

```

const handleRecieveMessage = (message) => {
  const { selectedChatData, selectedChatType, addMessage
} = UseAppStore.getState();

```

```

    if (
      selectedChatType !== undefined &&
      (selectedChatData._id === message.sender._id ||
selectedChatData._id === message.recipient._id)
    ) {
      console.log("message received")
      addMessage(message); // change state of
selectedchatmeeesage
    }
  }
}

```

@@@ store

```

addMessage: (message) => {
  const selectedChatMessages = get().selectedChatMessages;
  const selectedChatType = get().selectedChatType;

```

```

  set({
    selectedChatMessages: [
      ...selectedChatMessages,
    ]
  })
}

```

```

      ...message,
      recipient:
        selectedChatType === "channel"
          ? message.recipient
          : message.recipient._id,
      sender:
        selectedChatType === "channel"
          ? message.recipient
          : message.recipient._id,
    },
  ],

```

```

useEffect(() => {

  if (selectedChatData._id) {

    const getMessages = async () => {

      const response = await apiClient.post(
        GET_ALL_MESSAGES_ROUTES,
        {
          id: selectedChatData._id,
        },
        { withCredentials: true }
      );

      if (response.data.messages) {

        setSelectedChatMessages(response.data.messages);
      }
    };

    if (selectedChatType === "contact") getMessages();
  }
}

```

```
}, [selectedChatType, selectedChatData, setSelectedChatMessages])
```

```
const renderMessages = () => {  
  let lastDate = null;  
  return selectedChatMessages.map((message, index) => {  
    const messageDate =  
moment(message.timestamp).format("YYYY-MM-DD");  
    const showDate = messageDate !== lastDate;  
    lastDate = messageDate;  
  
    return (  
      <div key={index} className="">  
        {showDate && (  
          <div className="text-center text-gray-500 my-2">  
            {moment(message.timestamp).format("LL")}  
          </div>  
        )}  
        {selectedChatType === "contact" &&  
renderPersonalMessages(message)}  
        {/* {selectedChatType === "channel" &&  
renderChannelMessages(message)} */}  
      </div>  
    );  
  });  
};  
  
  });  
}  
});
```