



PROJECT

# CHAT APPLICATION

USING SOCKET.IO

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# ABOUT

It is a MERN stack app built with socket.io that is a library used for low latency, bidirectional and event-based communication between client and a server.

It will have different features such as Login feature, one to one encrypted chat as well as encrypted group chats, Admin authentication.

It will be a responsive app that can be used on smaller devices as well



## CHAT APP

# HOW IS IT DIFFERENT

i will try to make this app a very secure and trusted place for online chatting with disappearing message and encrypted messages so that the database manager himself does not have access to important details such as passwords and critical messages.



CHAT APP



# Tools I will be using

01

## HTML and Javascript

It is a web app so HTML and Javascript will be used

02

## React

Frontend library for making UI

03

## Tailwind CSS

For styling the Web application making it responsive for smaller devices as well

04

## Node.JS

For backend

05

## MongoDB

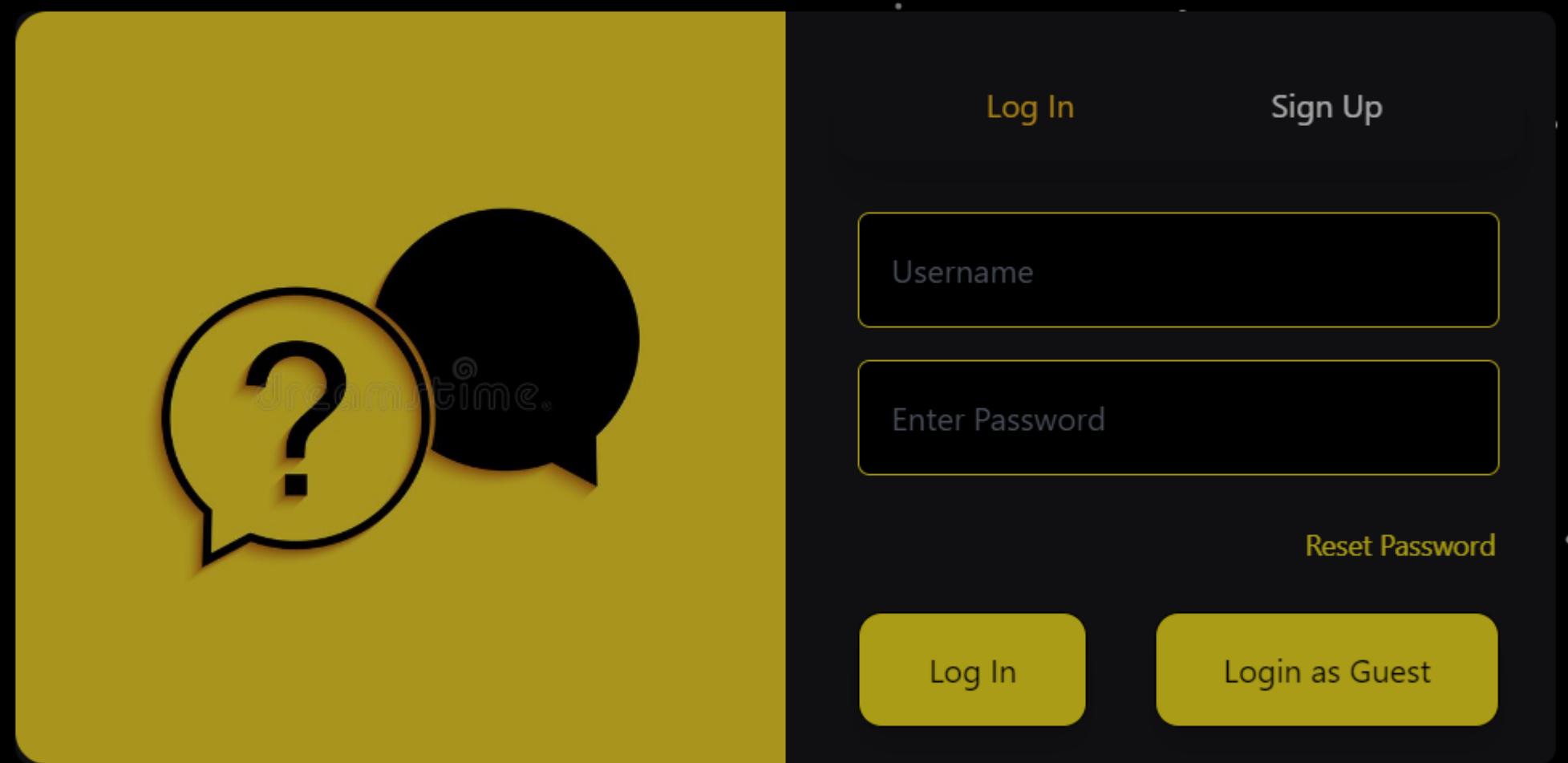
Non relational database for the app

06

## Github

For deployment of final application

# Login Page



This is the login page where user will login through their email and password. Once the user logs in they will be directed to chats page.

# Signup Page

[Log In](#) [Sign Up](#)

[Show](#)

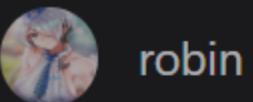
[Show](#)

No file chosen

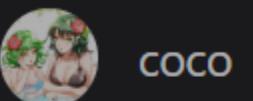
[Sign Up](#)

This is signup page where the user will make their account if they do not have already. User may set their Profile picture here as well. Once signed up the user will be redirected to chats page.

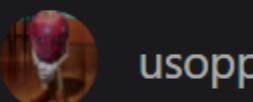
## Recent Chats



robin



coco



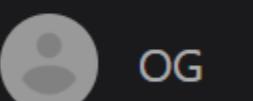
usopp



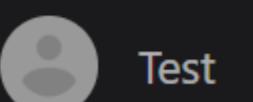
GGGG



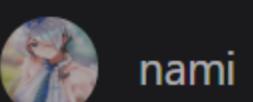
zoro



OG



Test



nami

## Chats Page

Select a Chat to get Started

This is the chats page routed through login page/ signup page. This is mainly inspired by Whatsapp and Discord. I tried to bring their best features.

A screenshot of a dark-themed messaging application interface. At the top, a search bar contains the text "bro". Below the search bar, a sidebar displays "Search Results: 1 Results" and a list of recent chats with users "Brook", "robin", "coco", and "usopp". The main content area shows a user profile for "GGGG" with the names "zoro, nami, sanji, Brook, Luffy". A large, semi-transparent overlay with the title "Search User" is centered on the screen. In the top right corner, there is a conversation between two users: "Heelo" and "Hi I'm Satya, I hail from Trivendrum, but I was born and brought in Odisha, Nice to meet you!". The bottom of the screen features a message input field with the placeholder "Type your Message".

User can search for other users who already have accounts in the database i.e. through signing up.

I've made a search api for searching purpose where I'm querying the database based on the input string by User.

localhost:3000/chats

Recent Chats

robin

coco

usopp

GGGG

Your Name  
luffy

Email  
luffy@onepiece.find

Log Out

Logout

GGGG

zoro, nami, sanji, Brook, Luffy

Heelo

Hi I'm Satya, I hail from Trivendrum, but I was born and brought in Odisha, Nice to meet you!

# Show User Profile and Logout

Sidebar has the Show Profile option where user can see their profile and logout as well. For logging out I'm simply clearing the `localStorage.userInfo`. I've set the `useEffect` such that the moment User Info is changed it will redirect the user to Login page

Starting One on One Chat

User can start one on one chat by simply searching the User they want to chat with and then clicking on their UserCard.

The screenshot shows a dark-themed messaging application interface. At the top, there's a search bar with the text 'localhost:3000/chats' and a magnifying glass icon. Below the search bar, a navigation menu includes icons for back, forward, and other functions. The main area has a sidebar on the left with icons for search, recent chats, user profile, settings, and help. The sidebar also lists 'Recent Chats' with entries for 'sanji', 'robin', and 'coco'. The main content area displays a search result for 'sanji'. It shows a user card with a profile picture of a person with red hair, the name 'sanji' in green, and a link 'Click here for contact info'. A yellow box highlights the search result for 'sanji'. Below the search results, there's a large text area with a paperclip icon and a placeholder 'Type your Message'.

The screenshot shows a dark-themed group chat interface. On the left, a sidebar displays a search bar with 'sanji', a list of contacts ('Fighters'), and a 'Create' button. Below these are contact cards for 'zoro' and 'sanji'. A '+' icon allows adding new users. A 'New Group' section shows 'Results: 1 Results' with a card for 'sanji'. On the right, a main chat area shows a group named 'GGGG' with members 'zoro, nami, sanji, Brook, Luffy'. A user with profile picture 'Heelo' sends a message: 'Hi I'm Satya, I hail from Trivendrum, but I was born and brought in Odisha, Nice to meet you!'. At the bottom, a message input field says 'Type your Message'.

# Creating a Group Chat

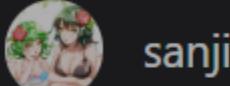
User can add users to their Group and Name the Group. By clicking the Create button Group will be created.



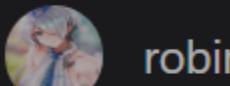
## Recent Chats



Fighters



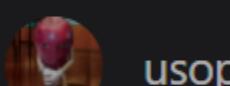
sanji



robin



coco



usopp



GGGG



zoro



OG



Test



## Fighters

sanji, zoro, Luffy

# Group chat was created



Type your Message



localhost:3000/chats

Recent Chats

- robin
- coco
- usopp
- GGGG
- zoro
- OG
- Test
- nami

robin

Click here for contact info

i'm fine thank you

hi how are you  
gomu gomu

how are you

oh well

ofofofo

ohayyo

hi

sososososo

UI for Single chat is inspired by Whatsapp

kjsndksdkf

Type your Message

VPN

Single Chat

localhost:3000/chats

Recent Chats

- robin
- coco
- usopp
- GGGG
- zoro
- OG
- Test
- nami

GGGG

zoro, nami, sanji, Brook, Luffy

Heelo

Hi

Hi I'm Satya, I hail from Trivendrum, but I was born and brought in Odisha, Nice to meet you!

# Group Chat

UI for group chat is inspired by Whatsapp

Type your Message



localhost:3000/chats



# Show Profile



## Account

Zoro

Username

zoro@onepiece.find

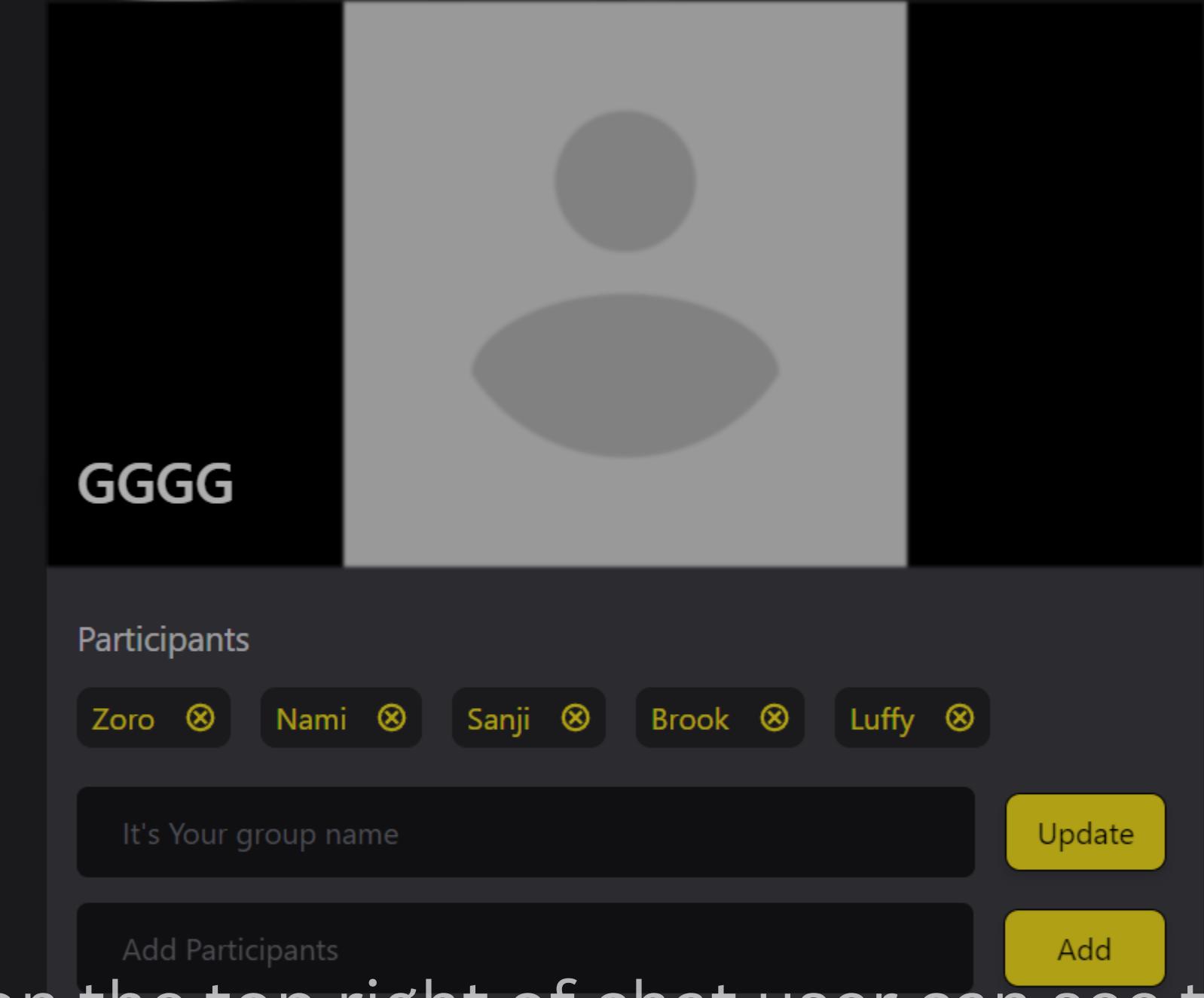
Email

April 1, 2023

Active Since

User can see the profile of the other user they are chatting with with the help of kebab icon on top right. The UI is inspired by Whatsapp and Telegram.

# Group Profile and Different Actions



Using the kebab icon on the top right of chat user can see the group profile as well different options are available from group such as Renaming the Group, Adding and Removing Users from group (Authorised only for Group Admin) and Leave Group.

# Demo

## Basic Functionalities

[https://drive.google.com/file/d/1OPDOPnVGqvARA3EhnPNtdjTx5sI4oCj/view?usp=share\\_link](https://drive.google.com/file/d/1OPDOPnVGqvARA3EhnPNtdjTx5sI4oCj/view?usp=share_link)

## Live Chat

[https://drive.google.com/file/d/1emGxusQp4NJk15G9bej3mtPBEvUNV-xm/view?usp=share\\_link](https://drive.google.com/file/d/1emGxusQp4NJk15G9bej3mtPBEvUNV-xm/view?usp=share_link)



CHAT APP

# THANK YOU

