

The background of the slide features a complex, stylized circuit board pattern. Black lines of varying thicknesses represent circuit traces, connecting several solid black circular nodes. In the background, behind the circuit lines, are faint, light-gray circular patterns that resemble the teeth of interlocking gears. The overall color palette is grayscale, with the text providing the primary color contrast.

# Web - Chat - APP

A Scripting Project.

Submitted To: Dr Shweta Sharma

# Team Members

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- Prashan Jeet Kumar (12212061)

# Introduction

Today, we're excited to introduce you to our innovative project that leverages modern web technologies to facilitate real-time communication and collaboration. Our chat application offers a seamless user experience with features such as real-time messaging, group chat, user authentication, and more.

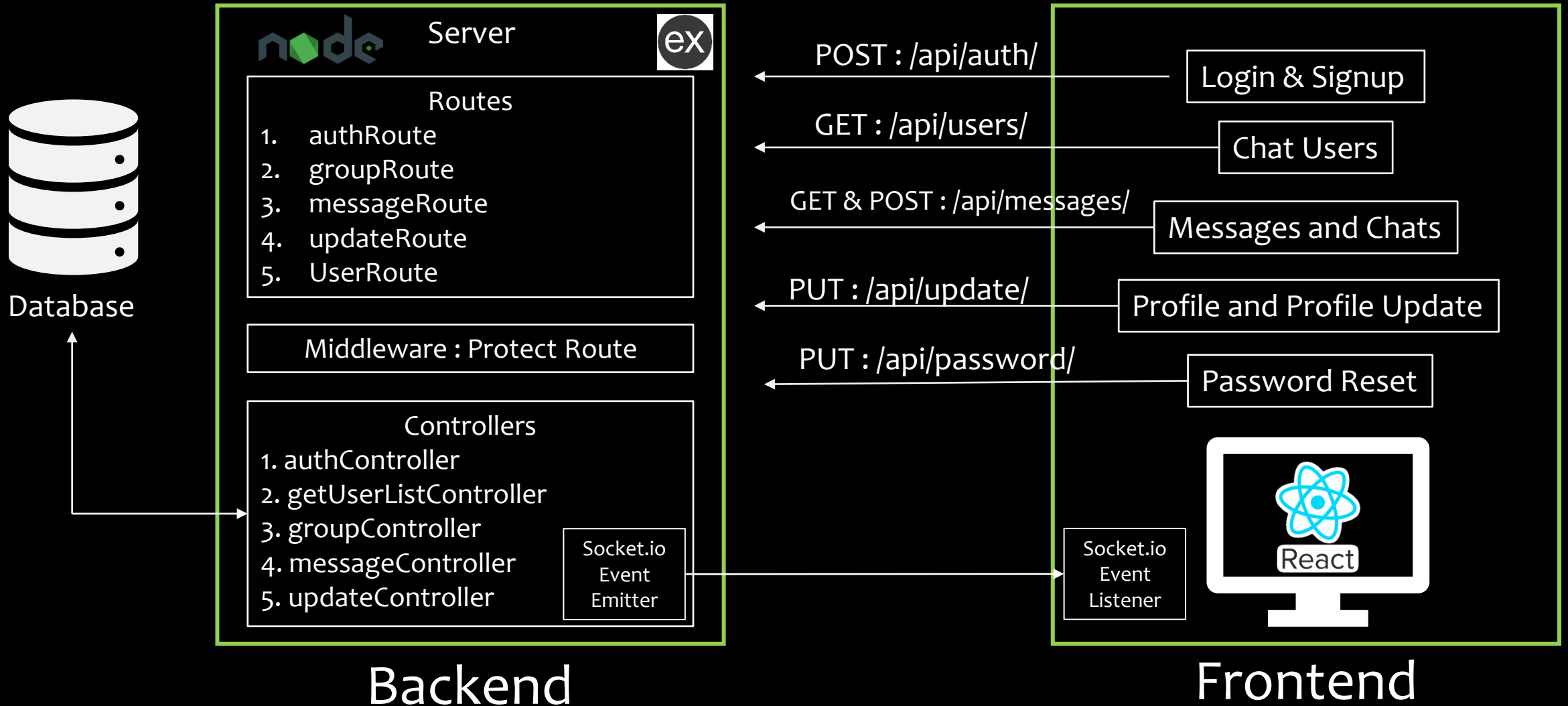
# Motivation

Our presentation showcases a Real-Time Web Chat Application developed as part of our web project assignment. By undertaking this project, we aimed to gain hands-on experience in full-stack web development. The choice of a web chat application as our project topic was deliberate, as it is a classic subject that offers abundant online resources for learning and troubleshooting. Through this project, we sought to master essential technologies.

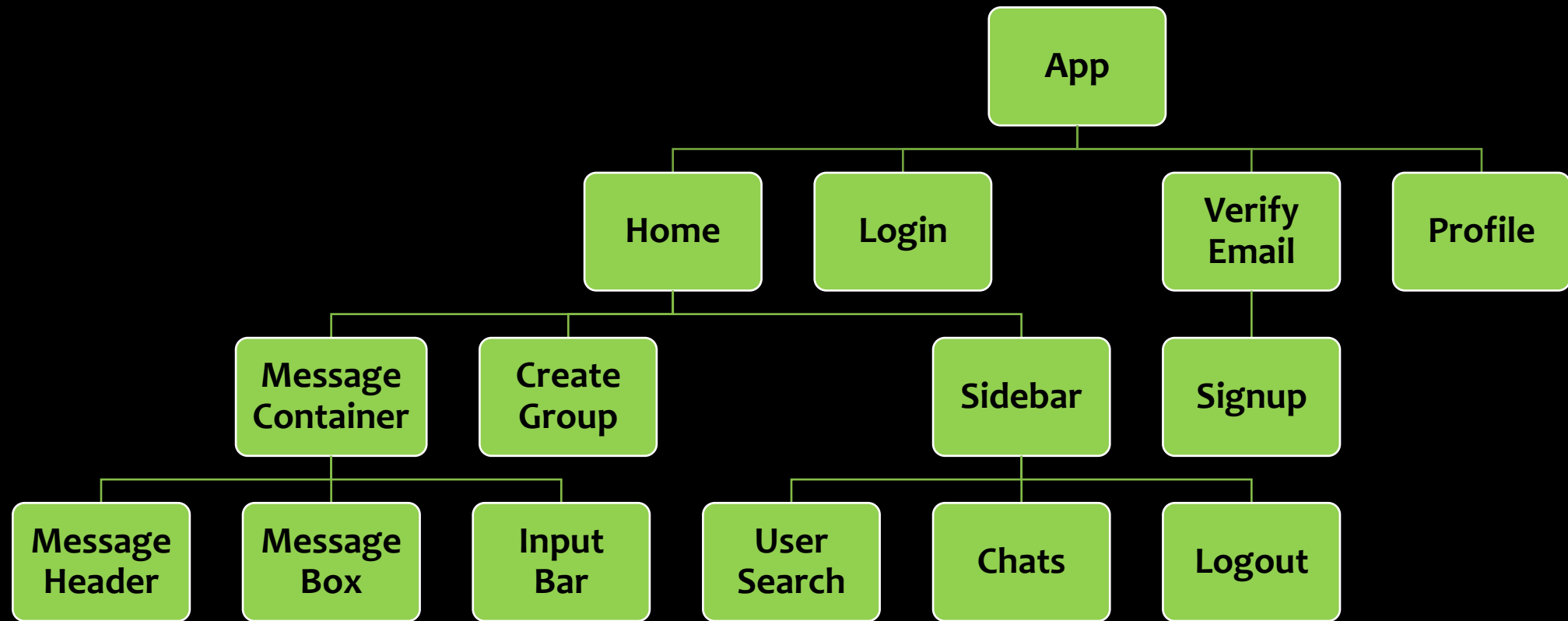
# Features

- Realtime Messaging
- Interactive UI
- File Sharing
- Group Chats
- Emoji Picker
- User Authentication and Authorization
- Email OTP Verification
- Forgot Password / Password Reset
- Password Hashing

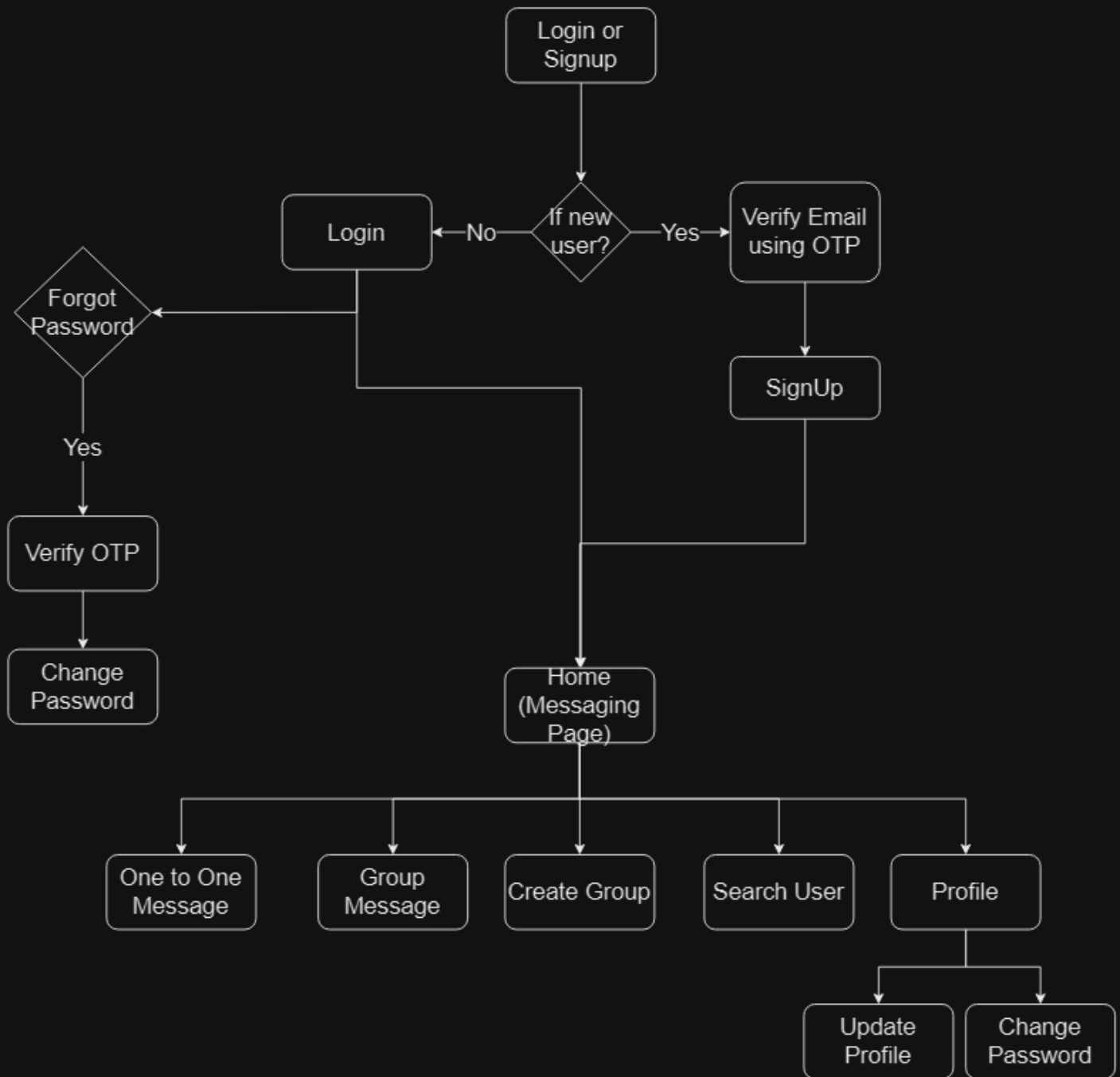
# Flowchart



# Flowchart



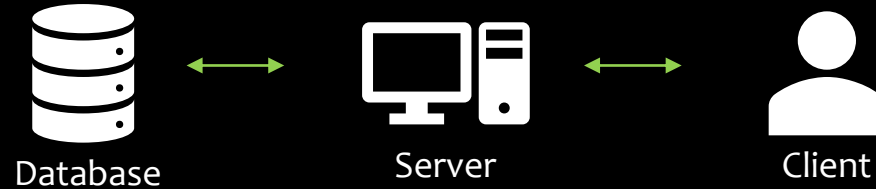
# FLOWCHART





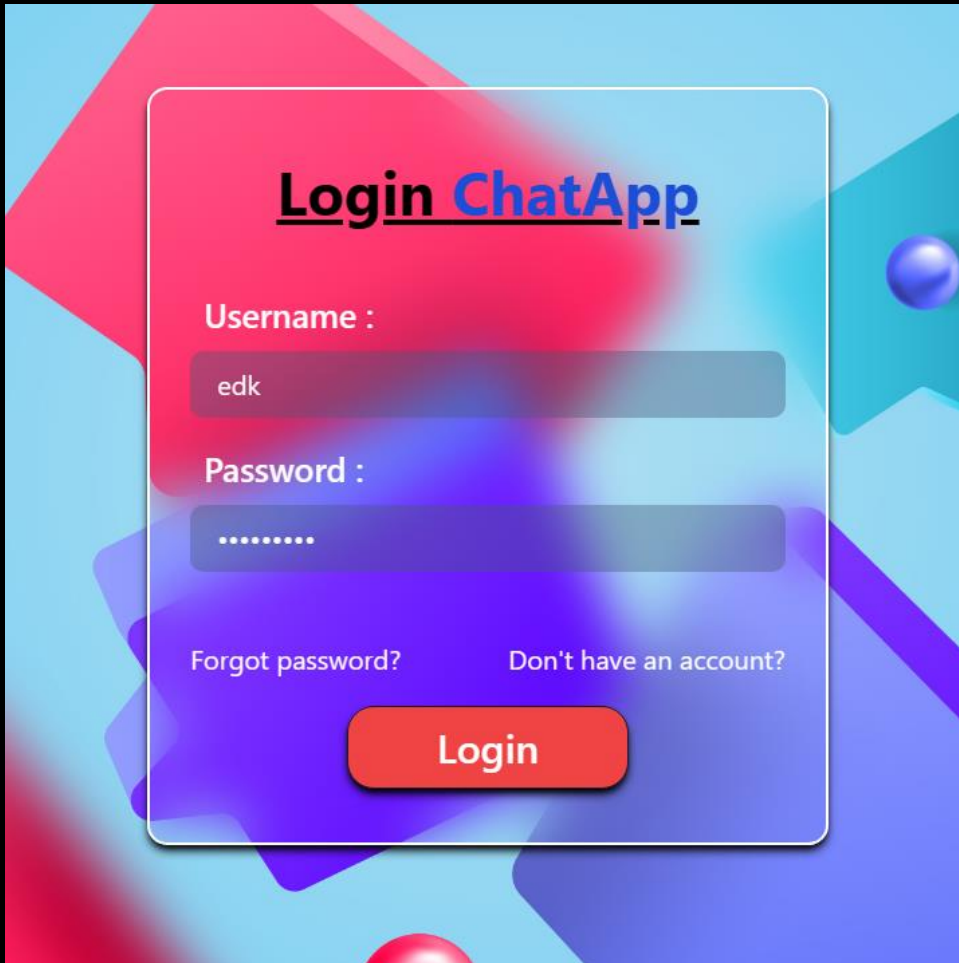
# Methodology

- Tech Stack : MERN , Tailwind CSS, Socket.io
- Architecture : Client-Server architecture.



- UI Design : Using React and Tailwind CSS.
- Server Management : Node JS and Express
- User Authentication : User authentication using JWT tokens stored in cookies.
- Real-Time Messaging : Using Socket.io events.
- Data Storage : MongoDB as database to store all application data.
- Error Handling : Using try Catch Block. Toast Library.
- Deployment : Deployed on Render.com using GitHub Repository.

# Screenshots



**Login ChatApp**

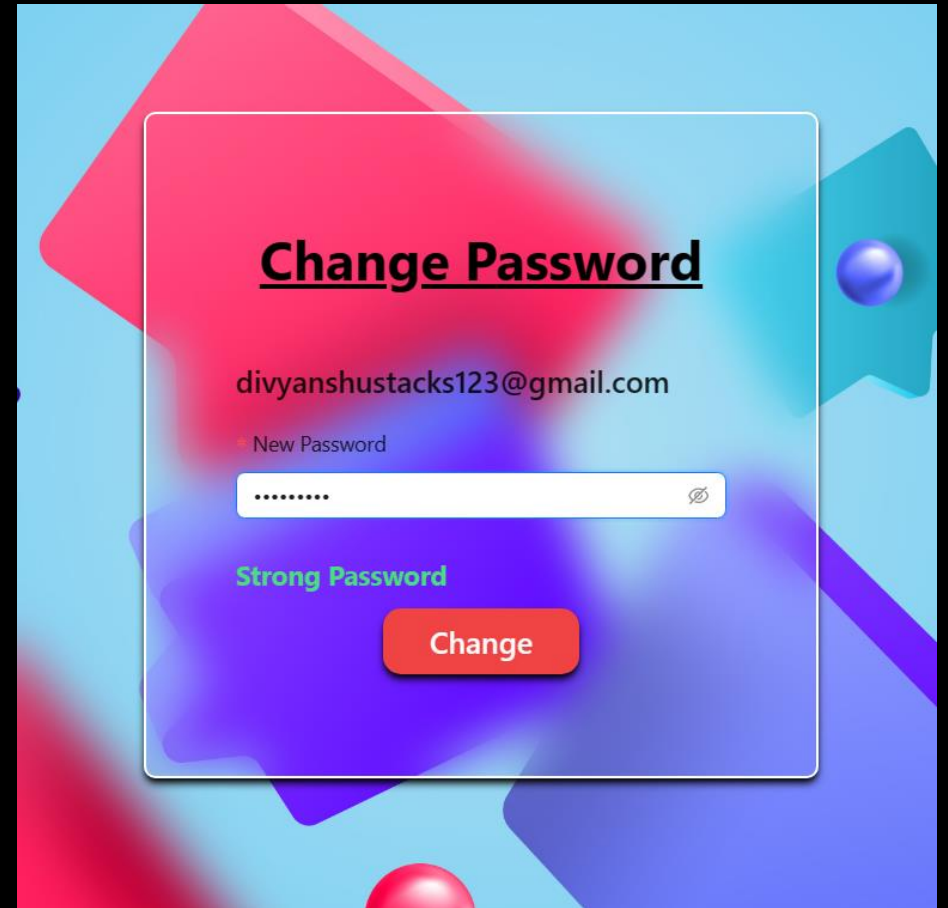
Username :

Password :

[Forgot password?](#)   [Don't have an account?](#)

**Login**

Login



**Change Password**

divyanshustacks123@gmail.com

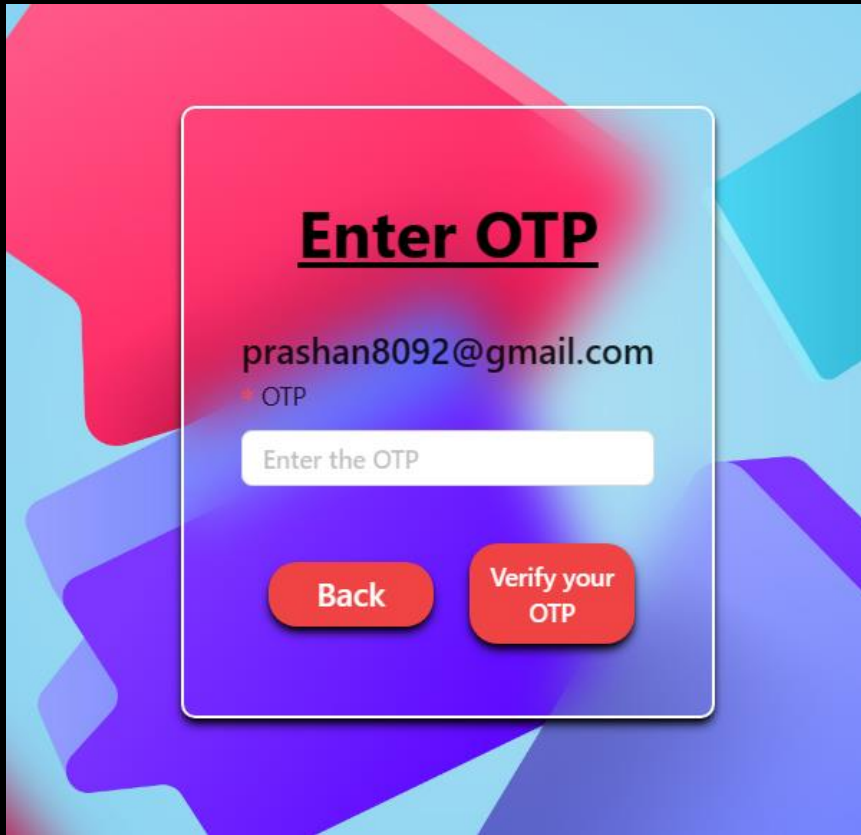
New Password

**Strong Password**

**Change**

Forgot Password

# Screenshots



This screenshot shows a verification screen with a light blue background and abstract pink and purple shapes. A white rounded rectangle contains the text 'Enter OTP' in bold black font. Below it, the email 'prashan8092@gmail.com' is displayed. A small red star icon is next to the text 'OTP'. A white input field with the placeholder 'Enter the OTP' is present. At the bottom are two red buttons: 'Back' and 'Verify your OTP'.

**Enter OTP**

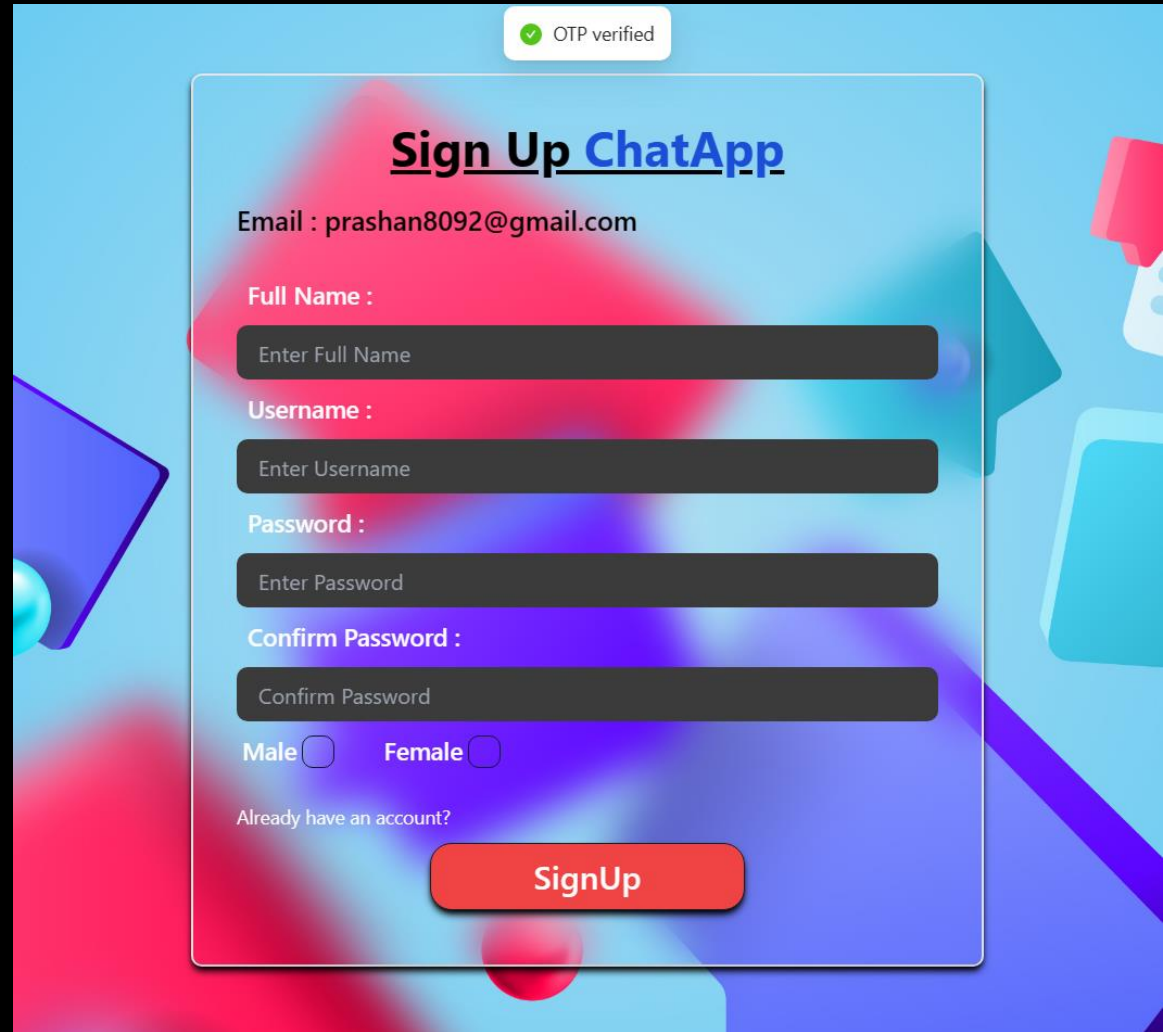
prashan8092@gmail.com

★ OTP

Enter the OTP

Back Verify your OTP

Verify Email



This screenshot shows a registration screen with a light blue background and abstract pink and purple shapes. A white rounded rectangle contains the title 'Sign Up ChatApp' in bold black font. Below it, the email 'prashan8092@gmail.com' is displayed. There are four input fields for 'Full Name', 'Username', 'Password', and 'Confirm Password'. Below these are radio buttons for 'Male' and 'Female'. At the bottom is a red 'SignUp' button. A green checkmark icon and the text 'OTP verified' are in a white box at the top right of the form area.

✔ OTP verified

**Sign Up ChatApp**

Email : prashan8092@gmail.com

Full Name :  
Enter Full Name

Username :  
Enter Username

Password :  
Enter Password

Confirm Password :  
Confirm Password

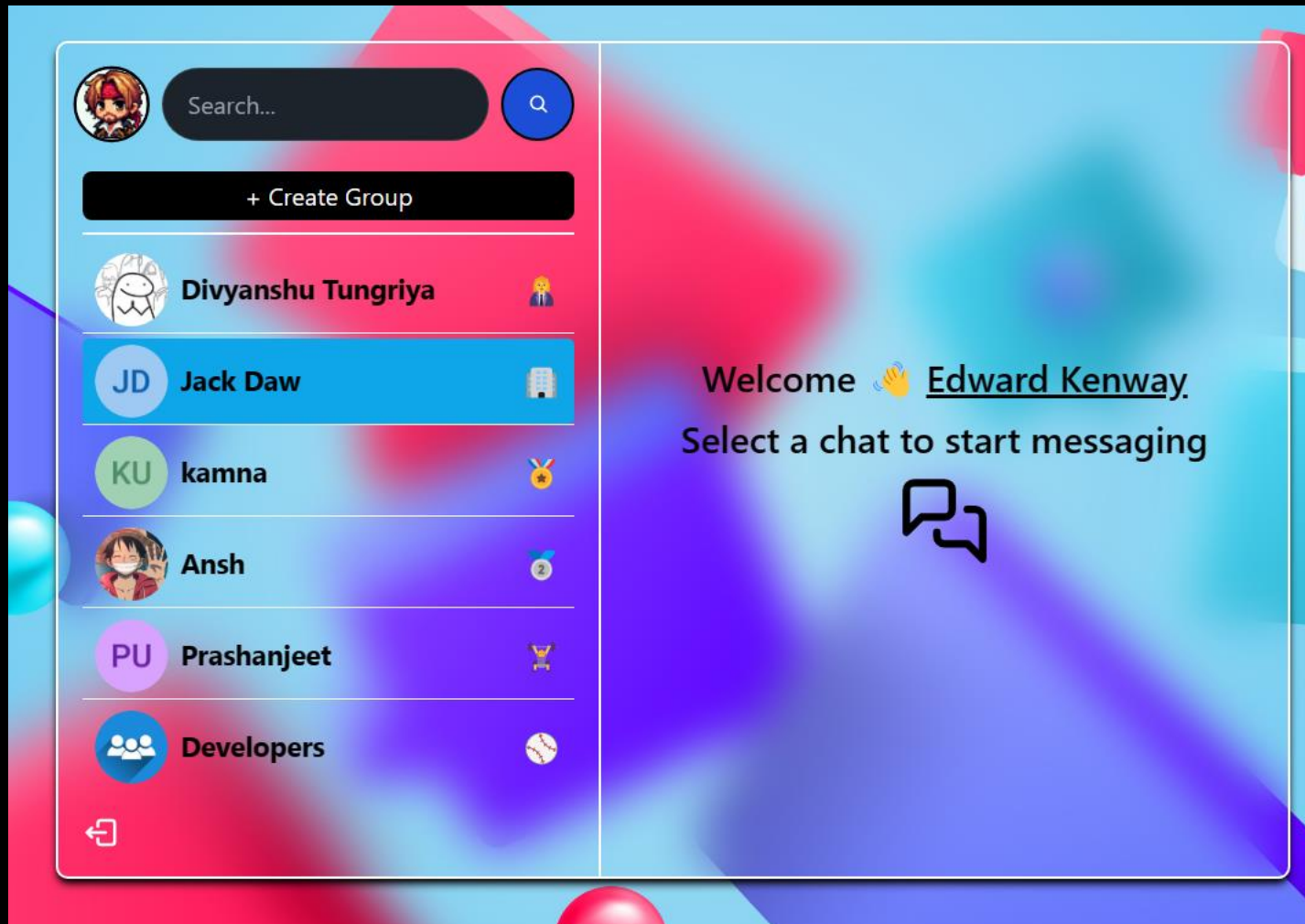
Male ☐ Female ☐

Already have an account?

SignUp

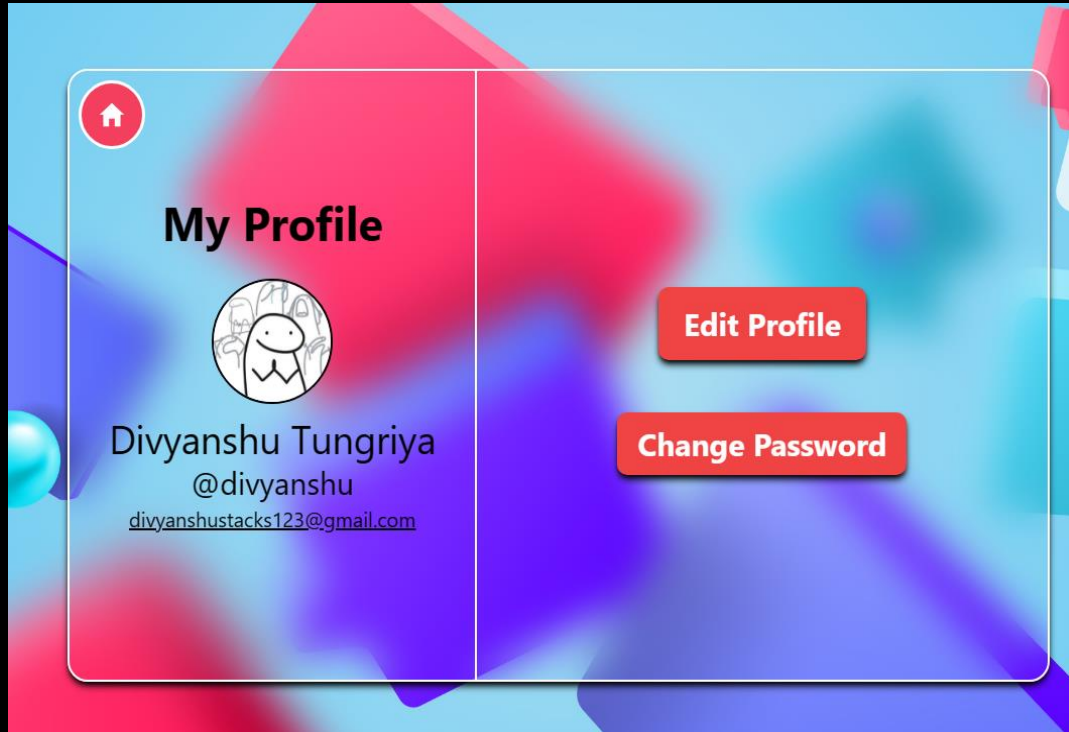
Sign Up

# Screenshots

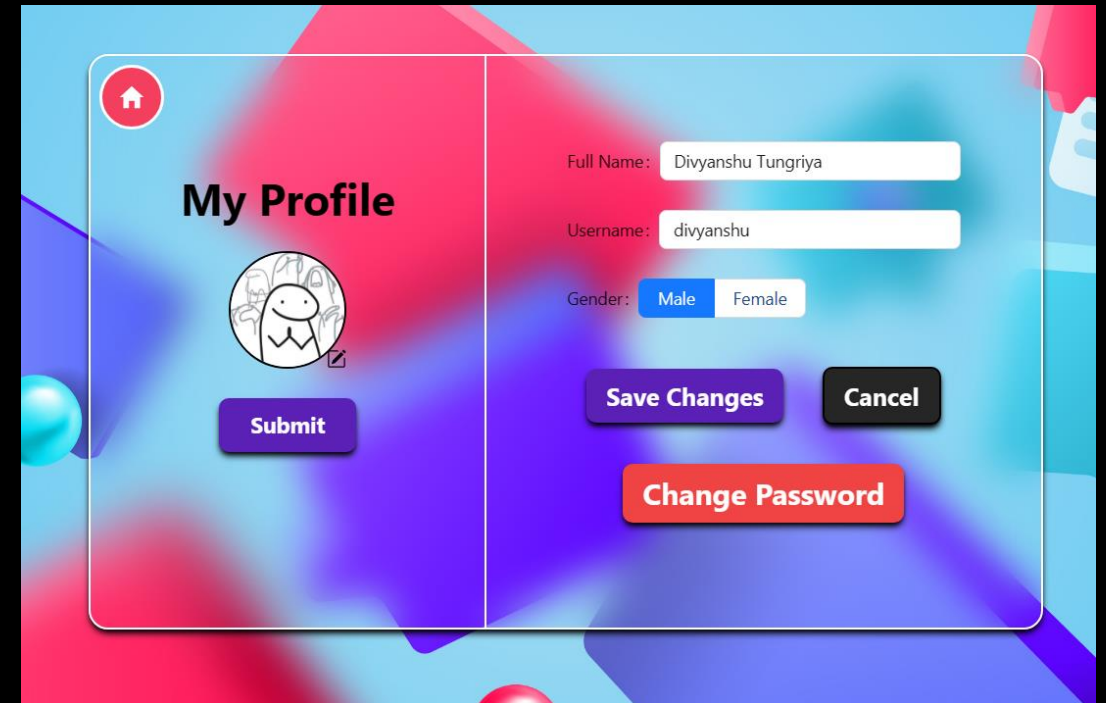


Home Page

# Screenshots



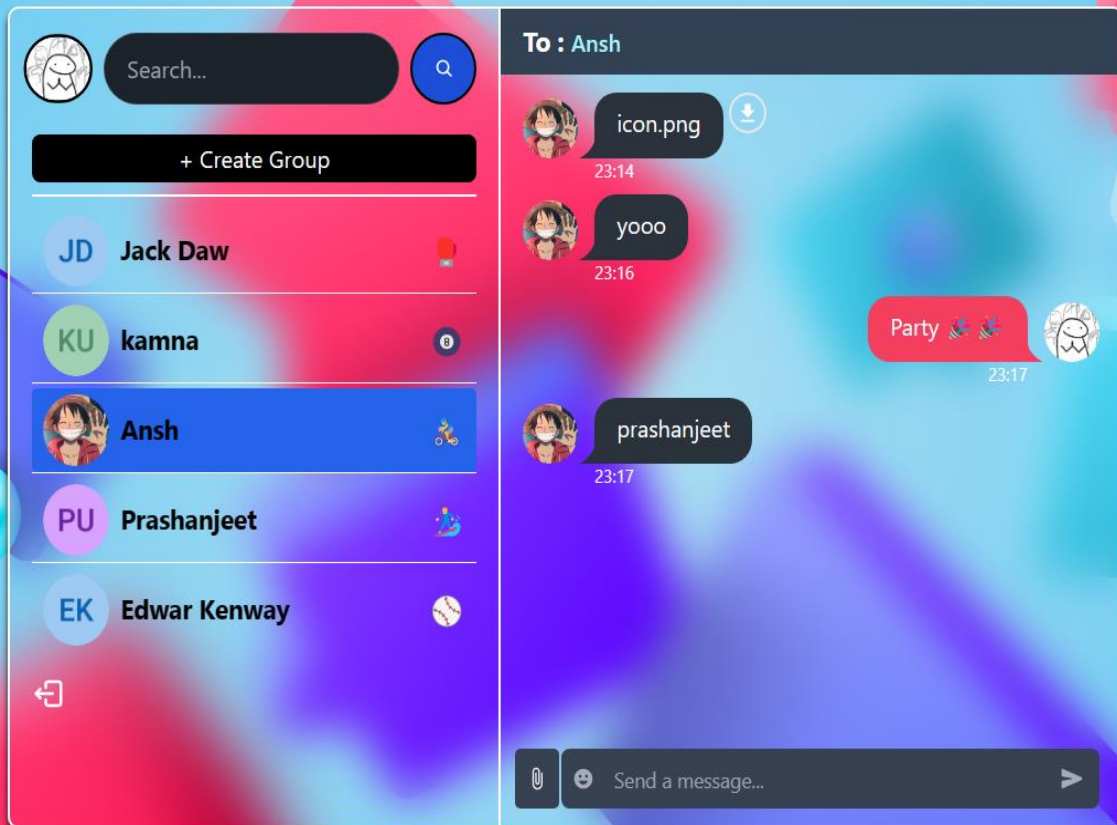
Profile



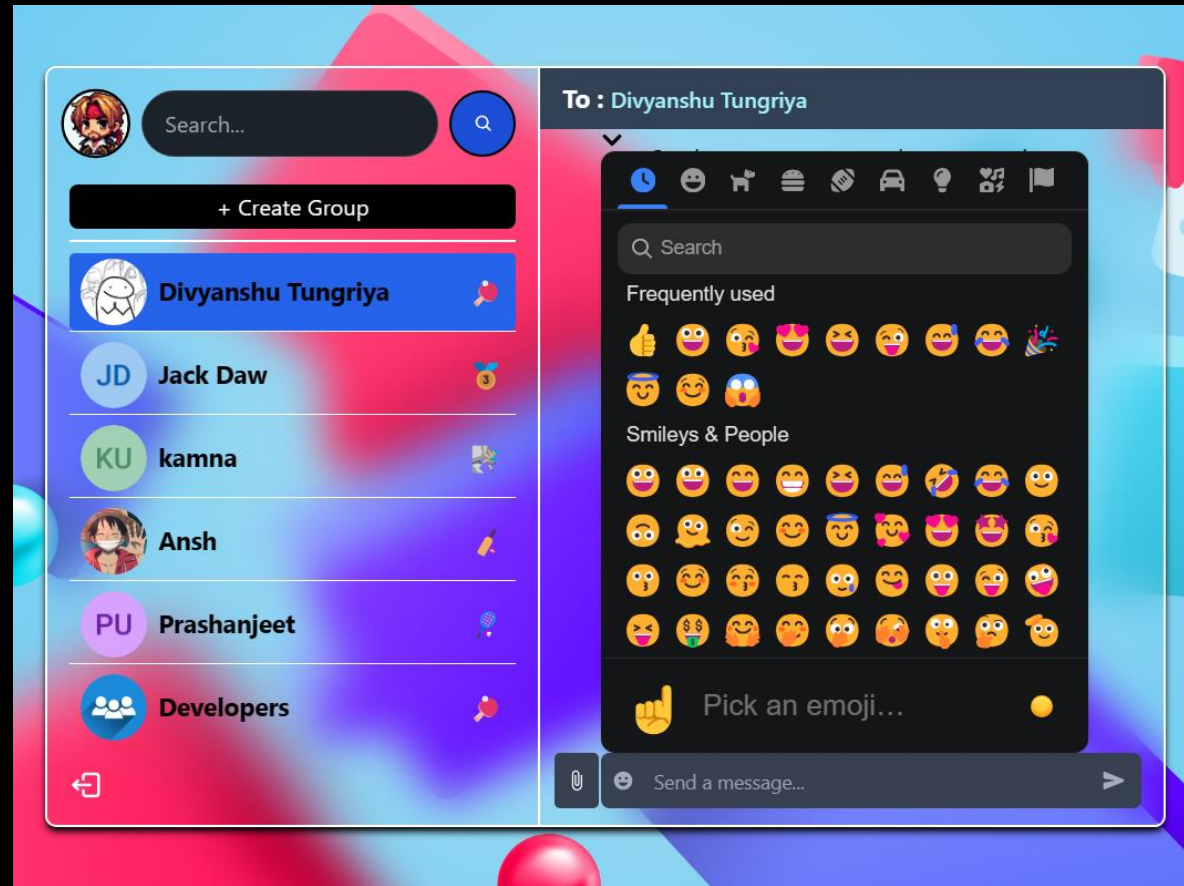
Profile Update



# Screenshots

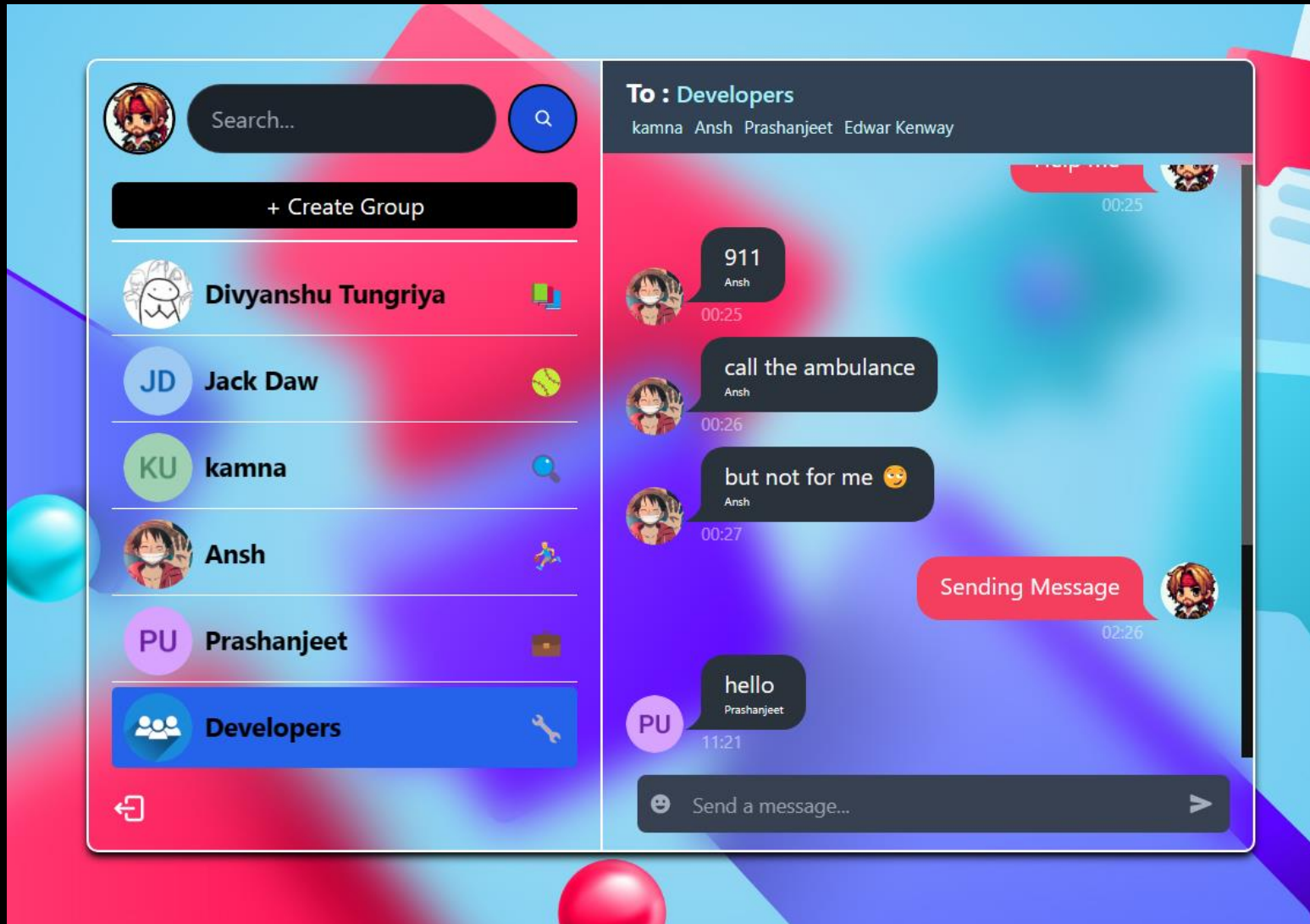


One to One Chat

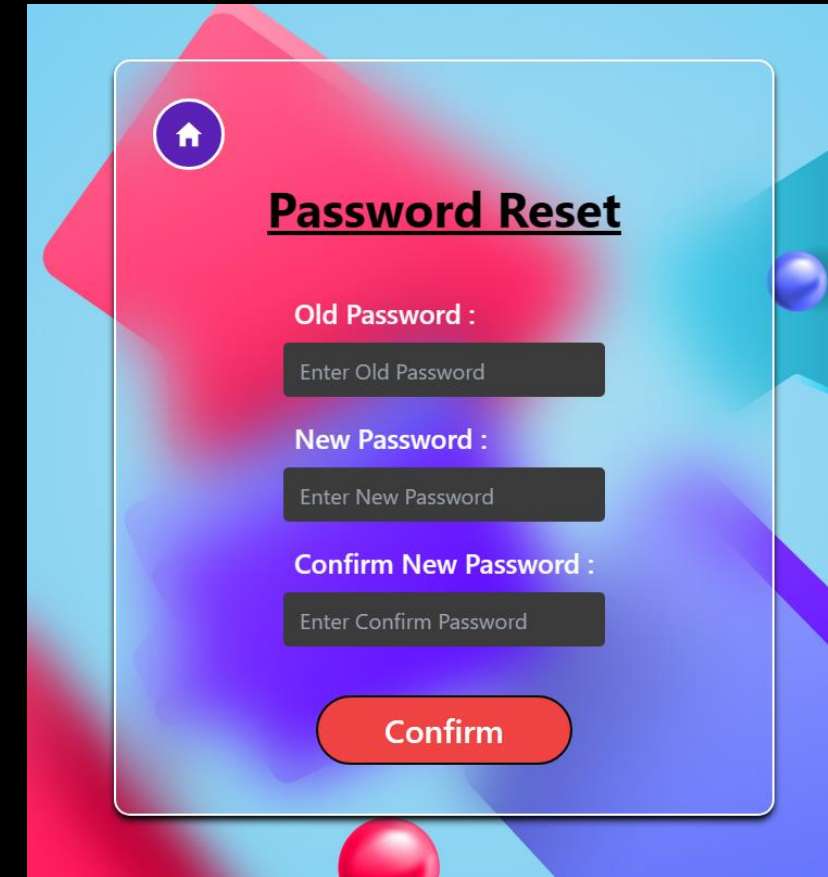


Emoji Selector

# Screenshots

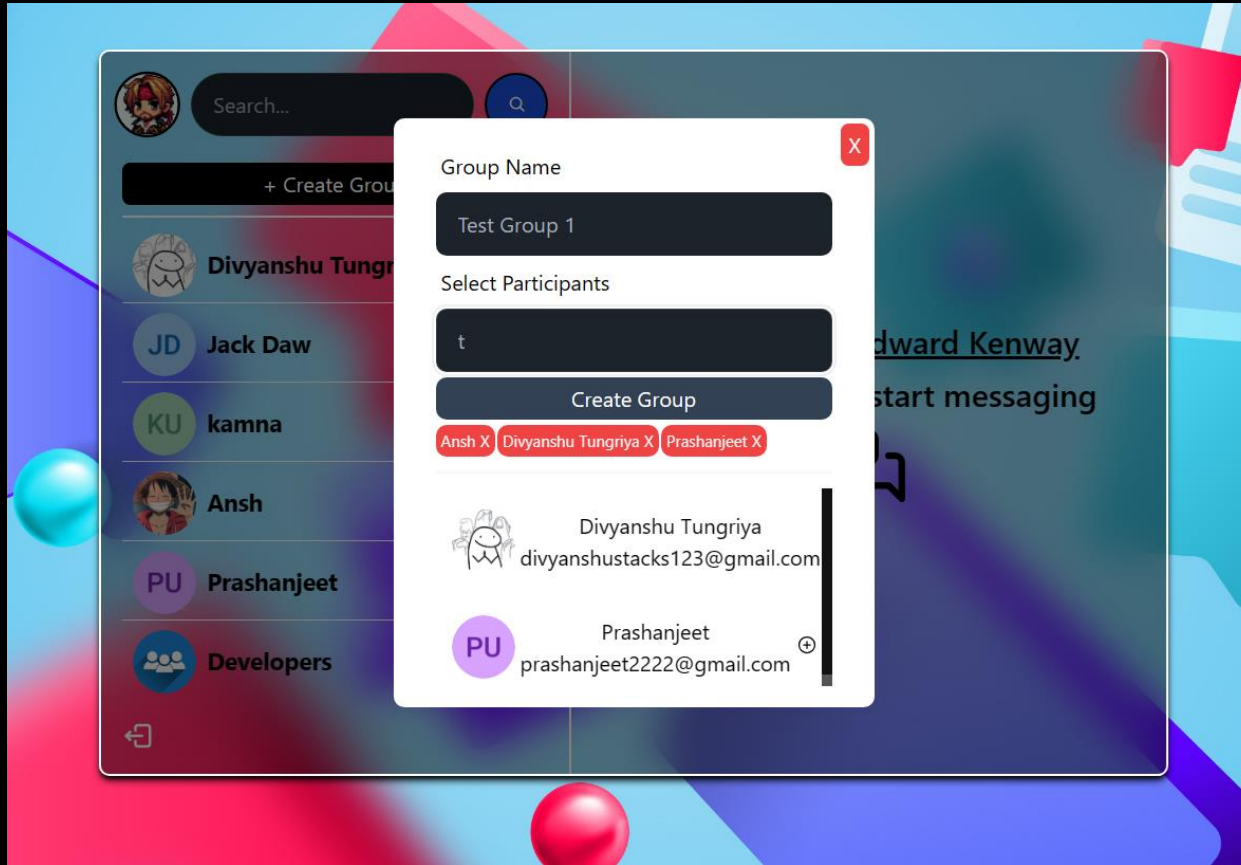


Group Chat

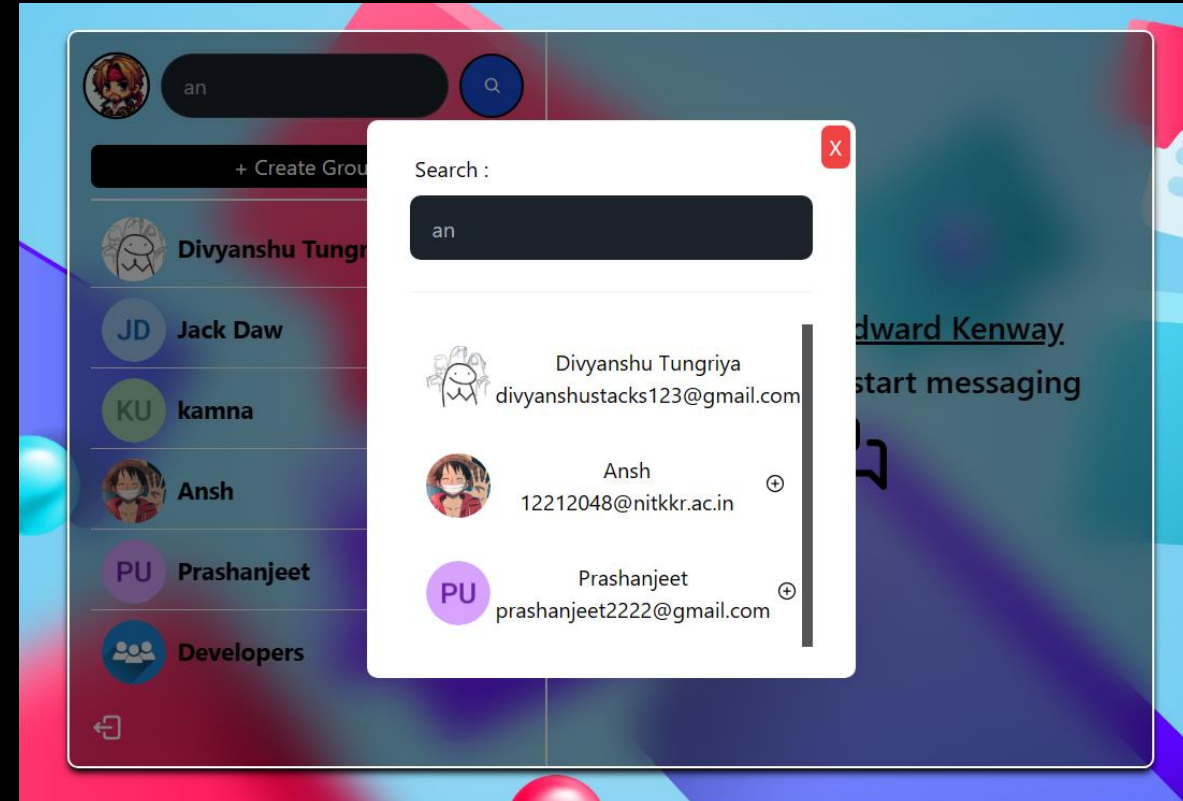


Password Reset

# Screenshots



Create Group



Search User



# Conclusion

In closing, our Real-Time Web Chat Application project has been a fulfilling learning experience in full-stack web development. We've tackled challenges, mastered key technologies, and created a functional tool for efficient communication. This project lays a strong foundation for future endeavors in web development. Thank you for your attention and support.

# Thank You

[The Link](#)