



Indian Institute of Information Technology
Dharwad

CHAT BUDDY APP

Connecting, Conversation , Creating Bonds

Chat Buddy

Connecting Conversations, Creating Bonds.



Group - 12

OUR TEAM

A. SARAS CHANDRIKA - 21BDS003

CH . SRINIVASA SAI - 21BDS012

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INTRODUCTION

Welcome to Group Chat – Where Connections Happen!

1.  Connect Anytime, Anywhere

2.  Group Dynamics Redefined

3.  Privacy at the Core

4.  Building Communities

>>> Let's chat, connect, and make memories together! 

FEATURES OF THE APP

- 1
- 2
- 3

Video And Voice Call Functionality

Experience clear voice and video calls, connecting with others effortlessly. Instant communication for a more personal connection. Connect on any device with our multi-platform access.

Group Chat Functionality

Transform communication with our group chat: seamless collaboration, instant exchange. Elevate engagement through real-time discussions, creating dynamic interactions.

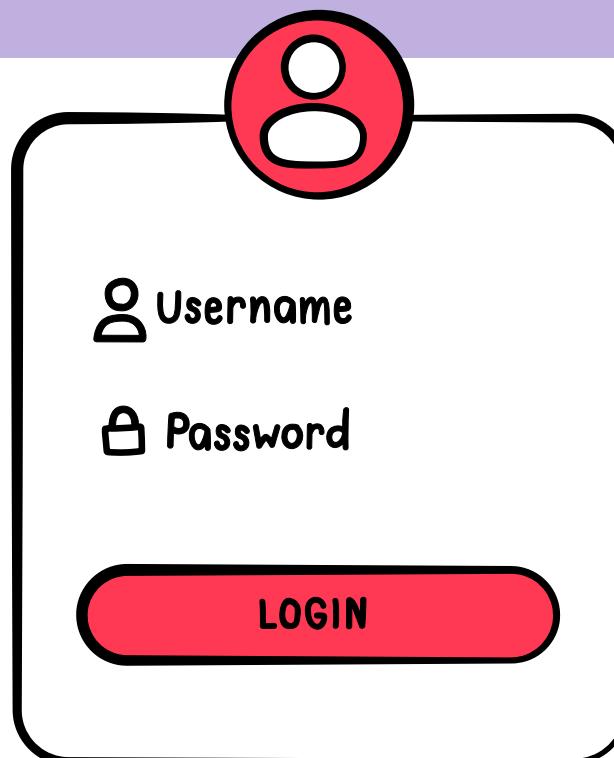
Role Differentiation

Admins (alphabet usernames) have control and management. Students (numeric usernames) enjoy specific privileges. Tailored roles for a personalized user experience.

AUTHENTICATION FOR STUDENTS AND LECTURERS

Student Login

Login functionality tailored specifically for students, granting them personalized features and access to educational resources.



Admin Login

Dedicated login for lecturers and administrators with additional permissions for managing groups and facilitating discussions.

CHAT BUDDY

Chat Buddy

Connecting Conversations, Creating Bonds.



Come Chat and Explore IITian's
Where Every Conversation
Unveils
A New Adventure!

Full Name

Email

Password

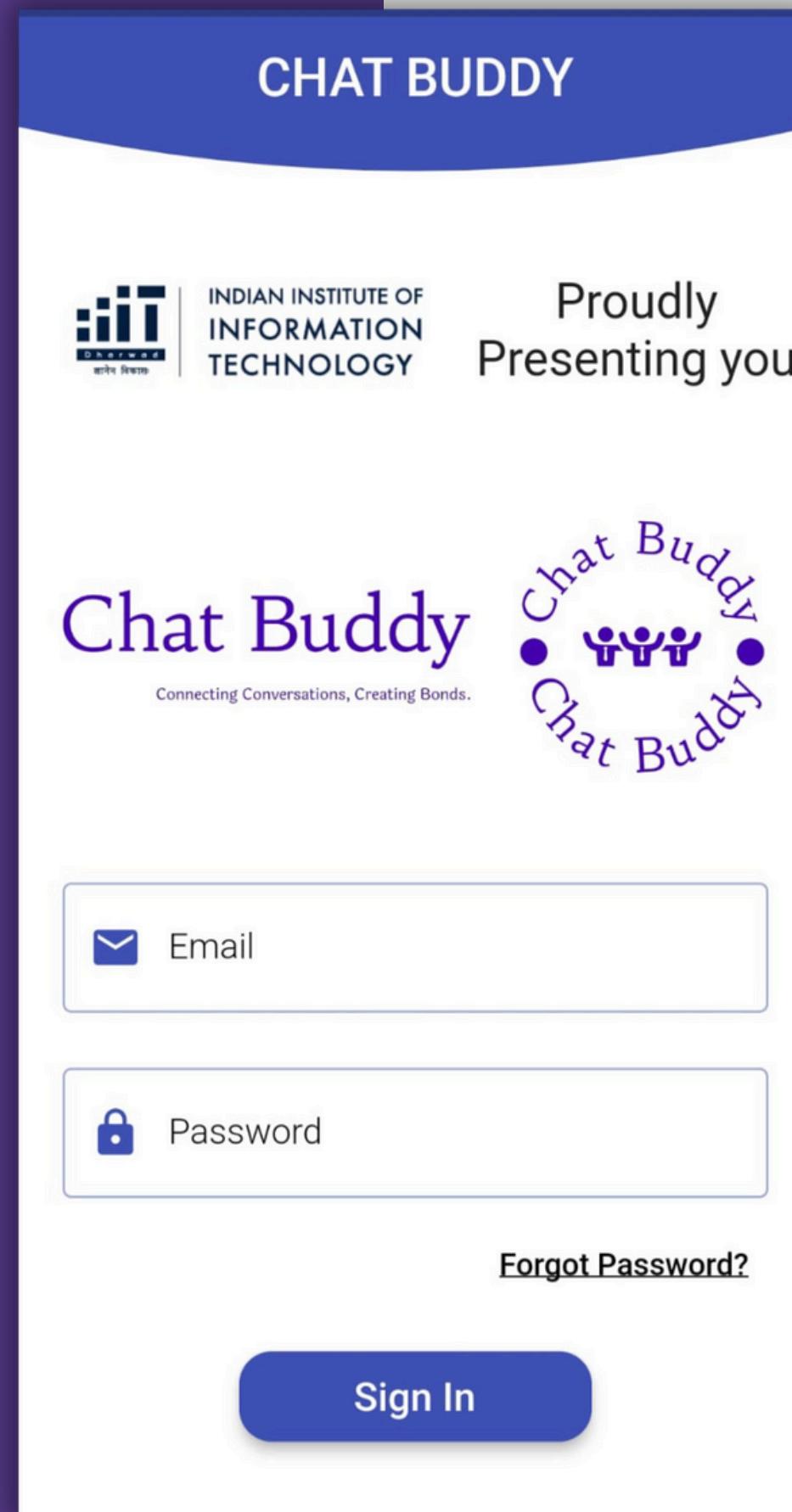
Register

FIREBASE AUTHENTICATION

The screenshot shows the Firebase Authentication console for a project named "testchat". The left sidebar includes links for Project Overview, Authentication (which is selected and highlighted in blue), Firestore Database, Storage, App Check, Realtime Database, Product categories, Build, Release & Monitor, Analytics, Engage, All products, and Spark (No-cost \$0/month). The main content area displays the "Authentication" screen with tabs for Users, Sign-in method, Templates, Usage, Settings, and Extensions. The "Users" tab is active, showing a table of users with columns: Identifier, Providers, Created, Signed In, and User UID. The table lists seven users, all created on Dec 16, 2023, and signed in on Dec 17, 2023. The "Add user" button is visible at the top right of the table. The bottom right corner of the table shows pagination controls for "Rows per page: 50" and "1 - 7 of 7".

Identifier	Providers	Created	Signed In	User UID
21bds027@iitdwd.ac.in	✉️	Dec 16, 2023	Dec 17, 2023	5tIBNR5KCQSRHgbsOesLpLd...
21bds004@iitdwd.ac.in	✉️	Dec 16, 2023	Dec 16, 2023	PhsjDkdjUhUYGw0yl1KnN3no...
21bds067@iitdwd.ac.in	✉️	Dec 16, 2023	Dec 16, 2023	pgTbyQlexhWEdaqbifzR5ev3z...
21bds056@iitdwd.ac.in	✉️	Dec 16, 2023	Dec 16, 2023	p0roc5WDiSePSxTj1WpVeMK...
22bds017@iitdwd.ac.in	✉️	Dec 5, 2023	Dec 5, 2023	vciONzLP2RMq8Q6w1KHcDn...
21bds003@iitdwd.ac.in	✉️	Dec 2, 2023	Dec 16, 2023	EFXWCTEE2cXg6RGcyQI46u2...
21bds012@iitdwd.ac.in	✉️	Nov 29, 2023	Dec 16, 2023	ta2rb6S8Z9WojsBNVtYANwjIE...

SCREENS



Login Screen

To access your personalized experience, simply log in with your registered email and password on the Login page.



Forgot Password?

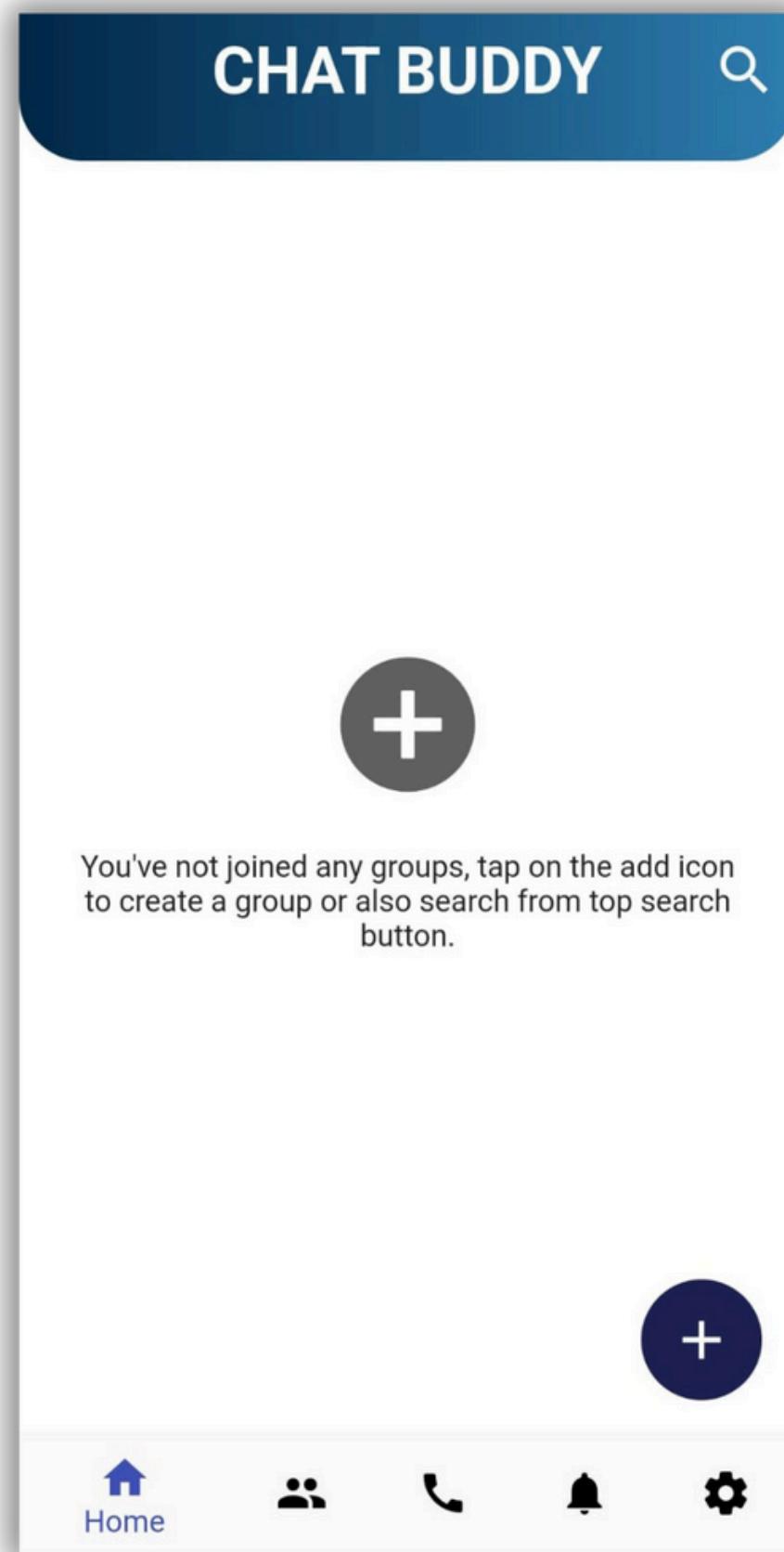
Don't worry! It occurs. Please enter the email address linked with your account.

Send Code

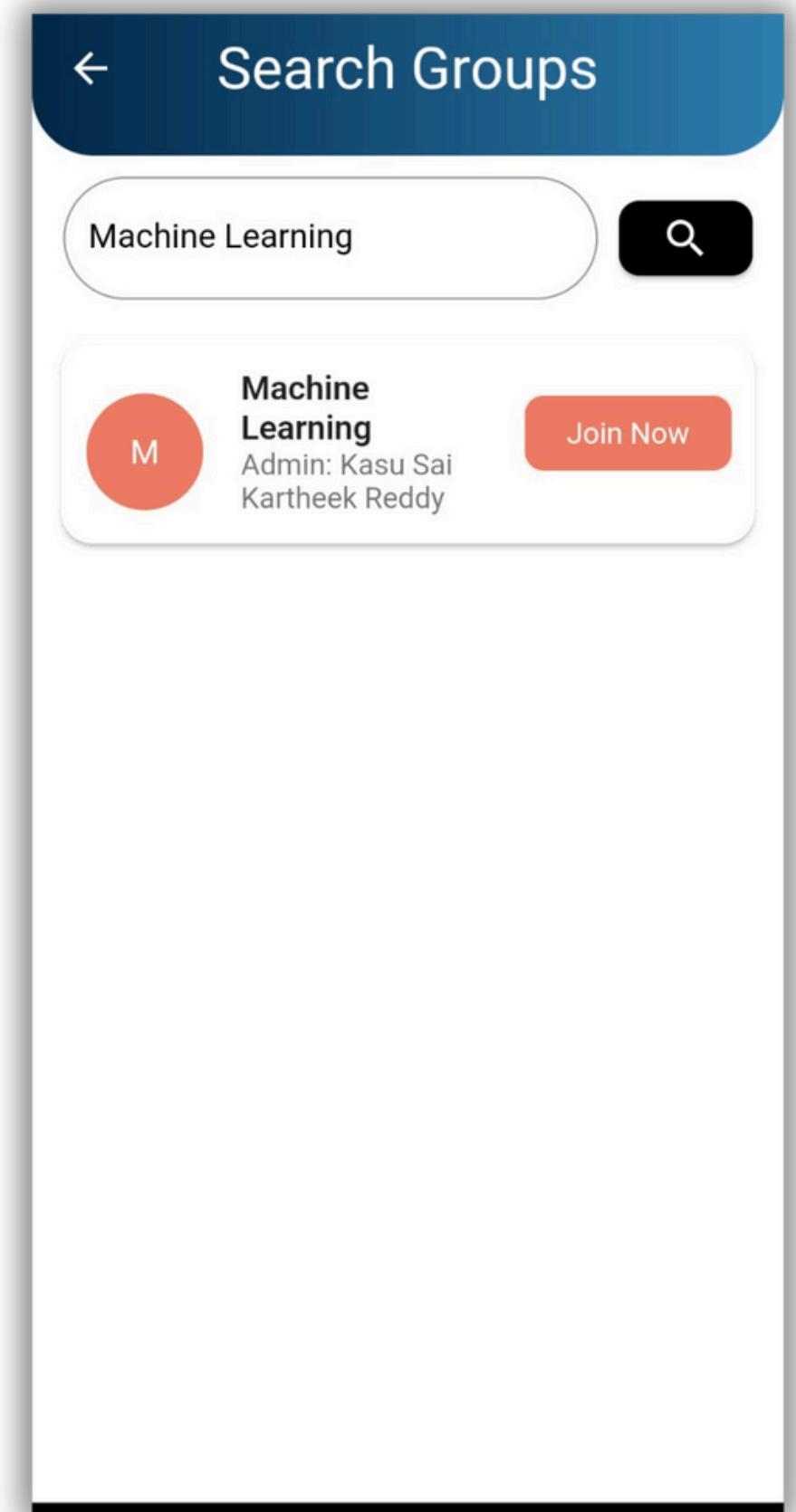
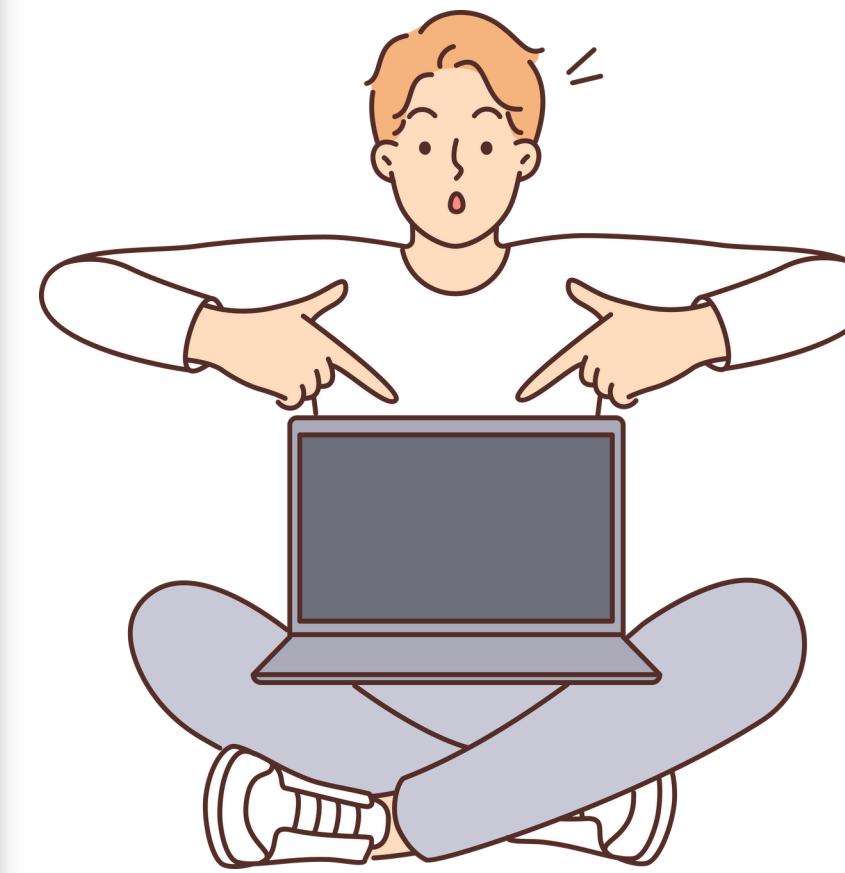
Remember Password? [Login](#)

Forgot Password

For a quick password reset, click 'Forgot Password' on the Login page, follow the instructions in the email, and you're all set with a new password



**Details of
Home Screen Page**



**Details of
Search Screen Page**

PART - 2

CHAT BUDDY 

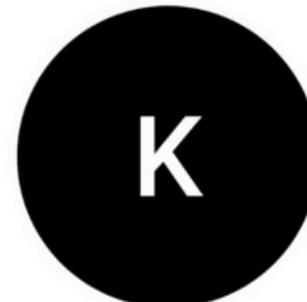
K Sai Kartheek Reddy 21bds027@iiitdwd.ac.in	Role: Student
Chandrika 21bds003@iiitdwd.ac.in	Role: Student
Vinay kumar 21bds056@iiitdwd.ac.in	Role: Student
Rishi 21bds067@iiitdwd.ac.in	Role: Student
Srinivasa Sai 21bds012@iiitdwd.ac.in	Role: Student
Gandhi 22bds017@iiitdwd.ac.in	Role: Student

**Specifications in
Members Screen Page**



CHAT BUDDY 



Kasu Sai Kartheek Reddy
21bds027@iiitdwd.ac.in

 Edit Profile

 Logout

 Terms of Service

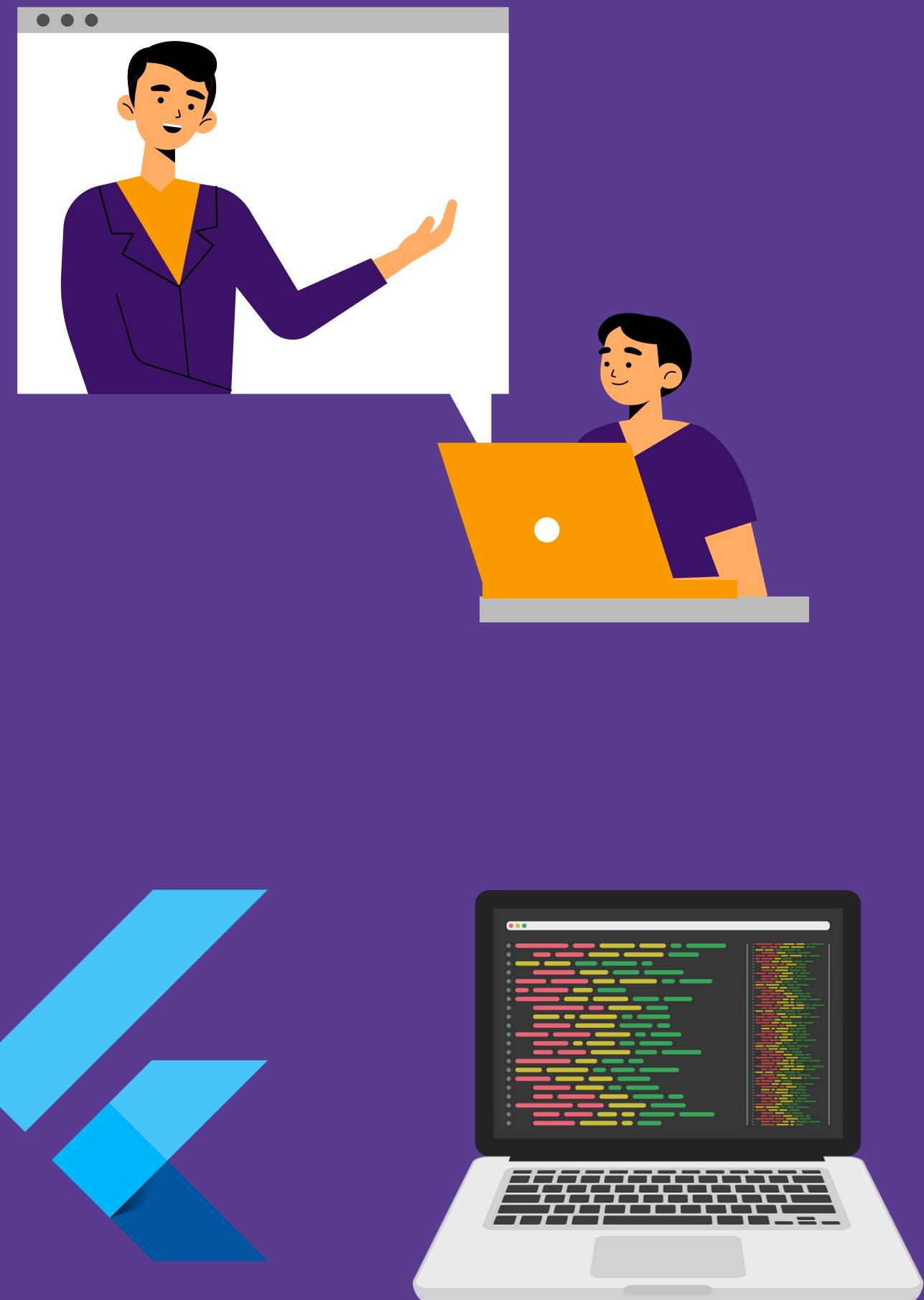
 Privacy Policy

**Elaborating
Settings Screen Page**

WIDGETS THAT HAVE BEEN TAUGHT IN THE CLASS

- MaterialApp
- Text
- Center
- Scaffold
- AppBar
- Image, NetworkImage and AssetImage
- Container
- Row, Column
- Card
- SizedBox
- CircleAvatar
- ListTile
- Icon
- StatelessWidget
- StatefulWidget
- Future builder
- Async , Await
- Bottom Navigation Bar
- Shared Preferences

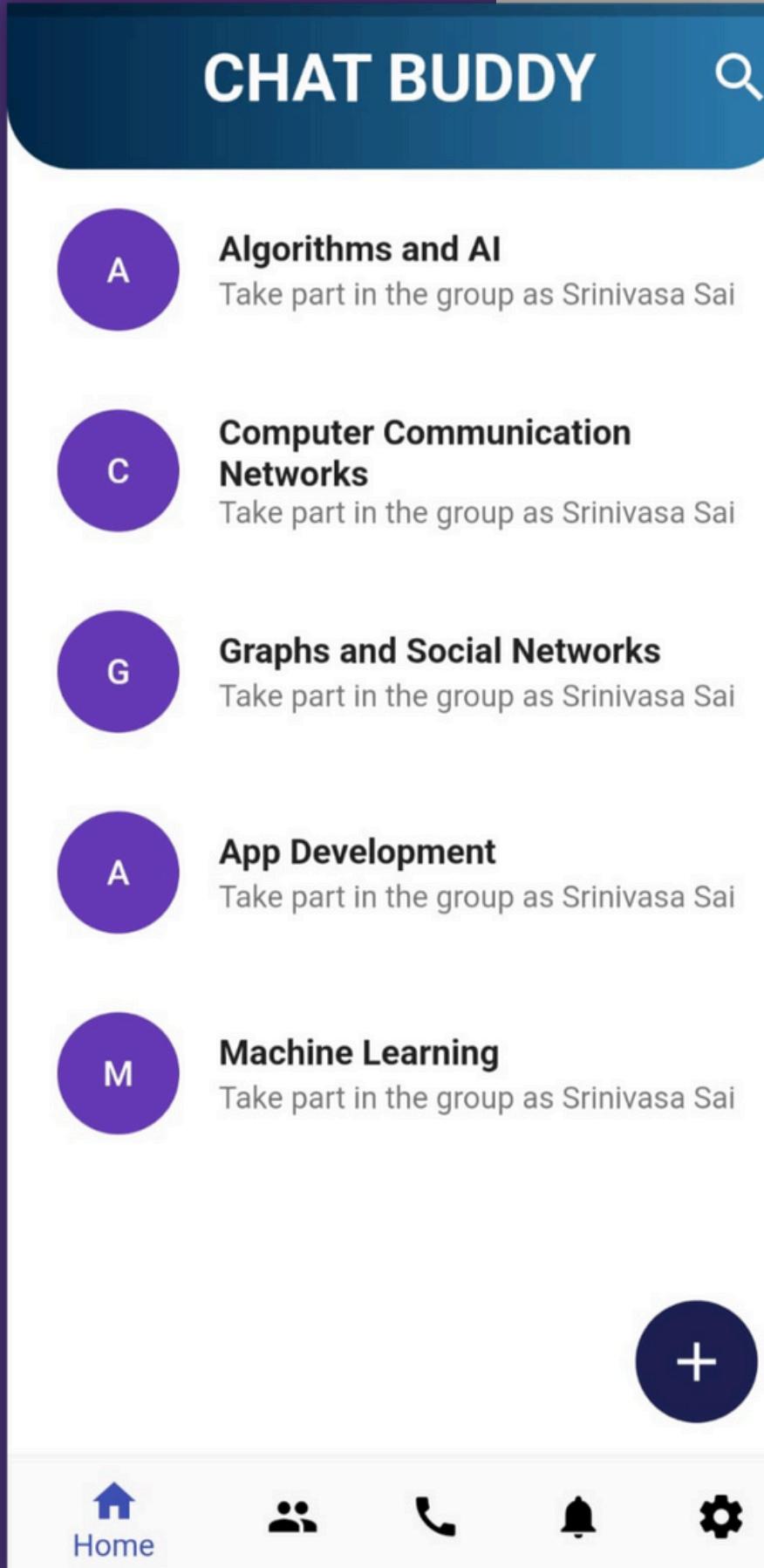


WIDGETS THAT WE LEARNED FROM THIS PROJECT

- **GestureDetector**
- **AppBarClipper (clipPath)**
- **CircularProgressIndicator**
- **StreamBuilder**
- **FloatingActionButton**
- **LinearGradient**
- **nextScreenReplace**



HOME PAGE

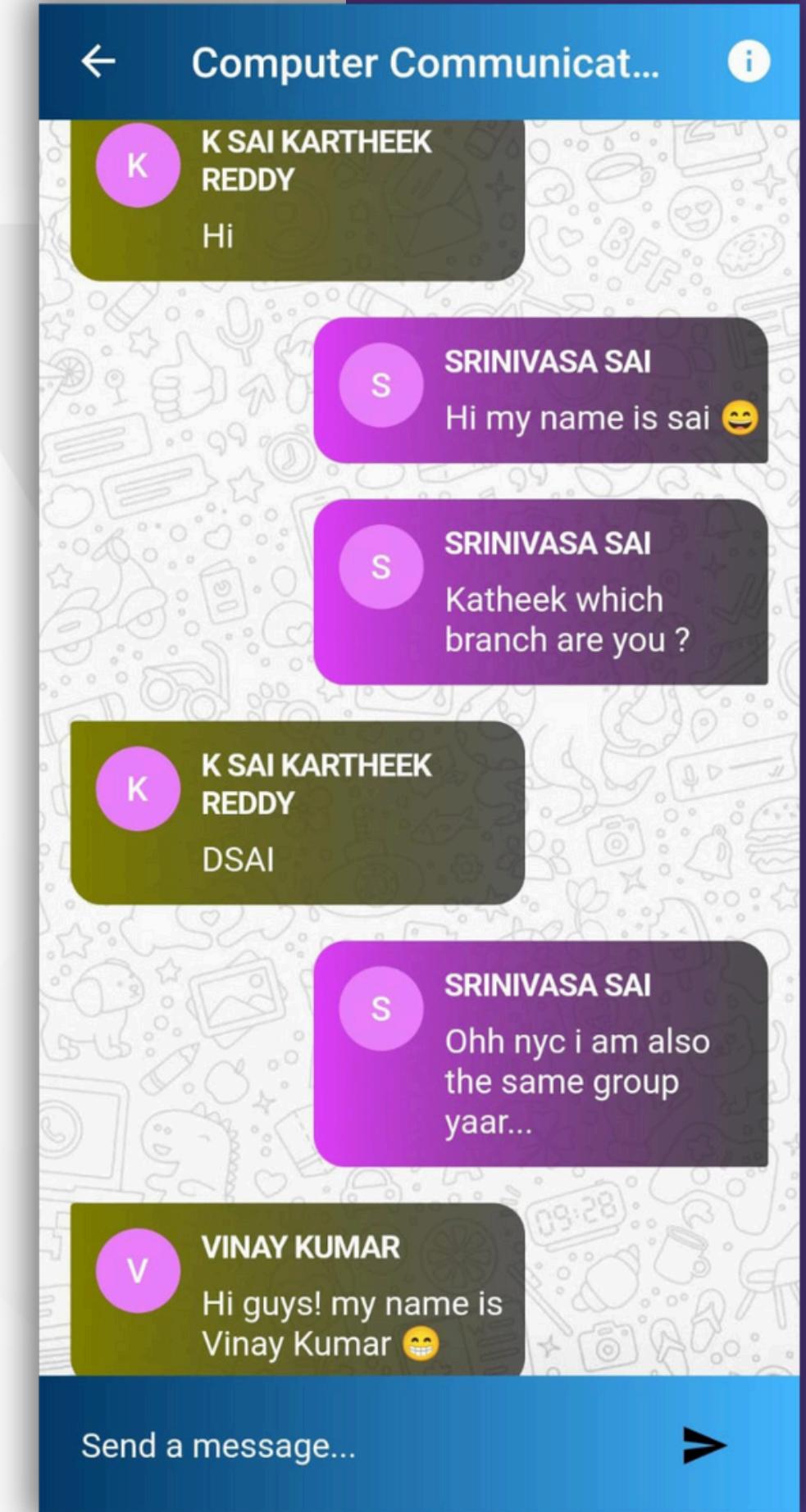


Group Chat

- A chat created by admin where all users can join and chat with each other for different purposes.
- All the messages would be get stored in the cloud Firestore of the firebase

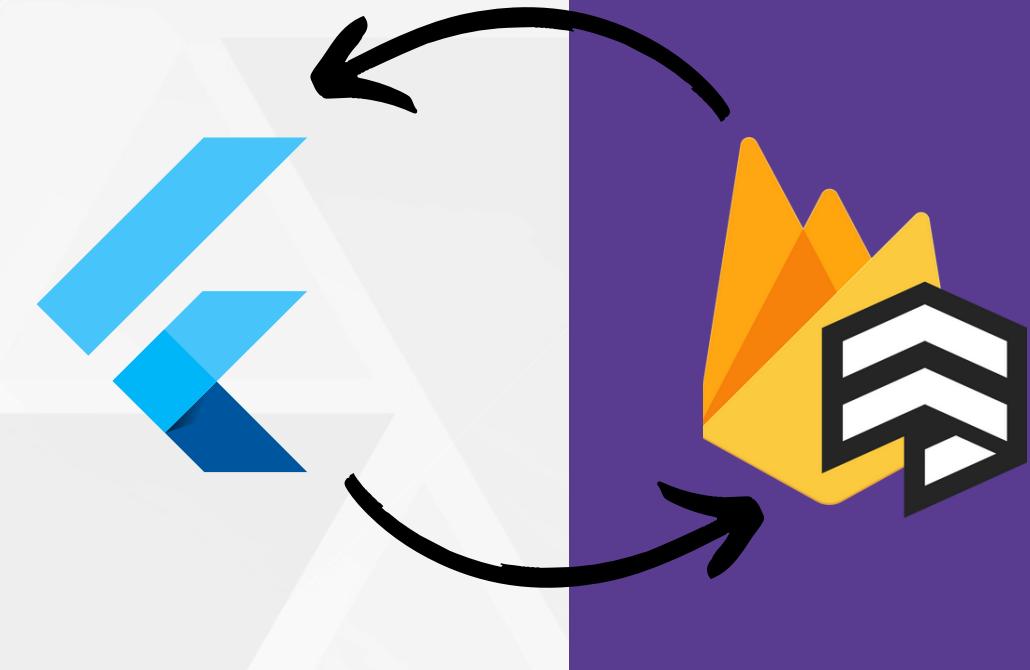
Group Info

- We can even see who are all the members joined in a particular group and even the admin of the group.
- Even anyone can exit a particular group if they wish to , from that group info itself



FIRESTORE (USERS) INTEGRATION

- All the users who are registered into our app even get their details stored in firestore along with authentication.
- We can even see each user's email , full name , what are the groups they joined and their unique id's which user doesn't know.



Firebase

Project Overview

Firestore Database

Storage

App Check

Authentication

Realtime Database

Cloud Firestore

testchat

users

(default)

+ Start collection

groups

users

+ Add document

5tIBNR5KCQSRHgbs0esLpLdSs6n1

EFXWCTEE2cXg6RGcyQ146u2Rp0G3

pOroc5WDiSePSxTj1WpVeMKYVEk2

pgTbyQlexhWEdaqbifzR5ev3zwv2

ta2rb6S8Z9WojsBNVtYANwjiEvV2

vciONzLP2RMq8Q6w1KHcDnPcvjI3

ta2rb6S8Z9WojsBNVtYANwjiEvV2

+ Start collection

+ Add field

email: "21bds012@iiitdwd.ac.in"

fullName: "Srinivasa Sai"

groups

0 "j5bz75E4GzV6a1f4IL2U_Machine Learning"

1 "nHpM7nNDqpo4XvDF1u10_App Development"

2 "X33FlckoOWjU8zrlY58M_Graphs and Social Networks"

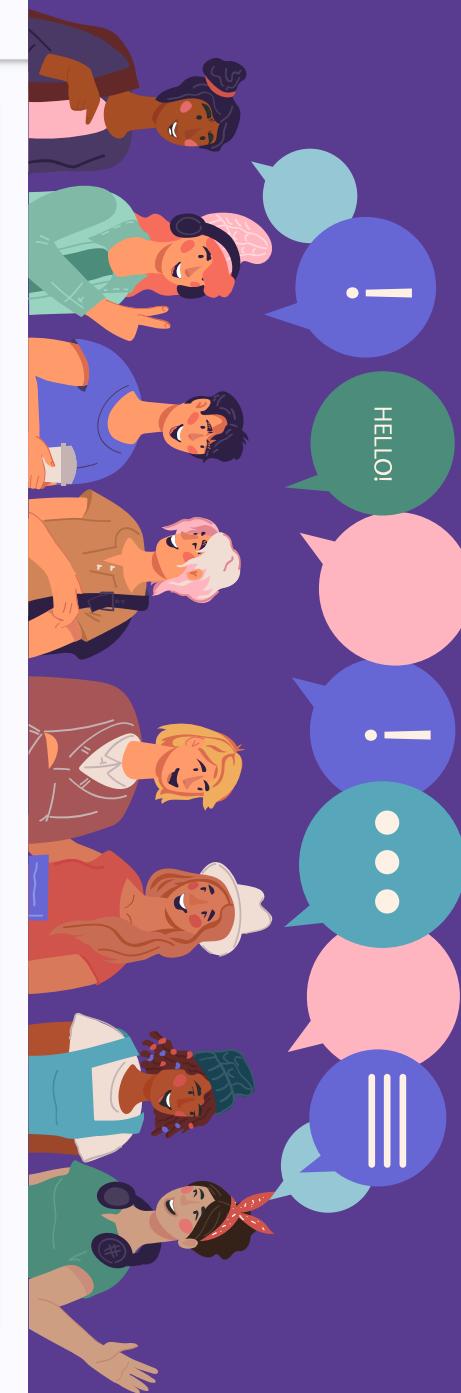
3 "Hefo7ogGr6D4OD93GNFm_Computer Communication Networks"

4 "q0YzLJPgYMxqTrGrsnK3_Algorithms and AI"

profilePic: ""

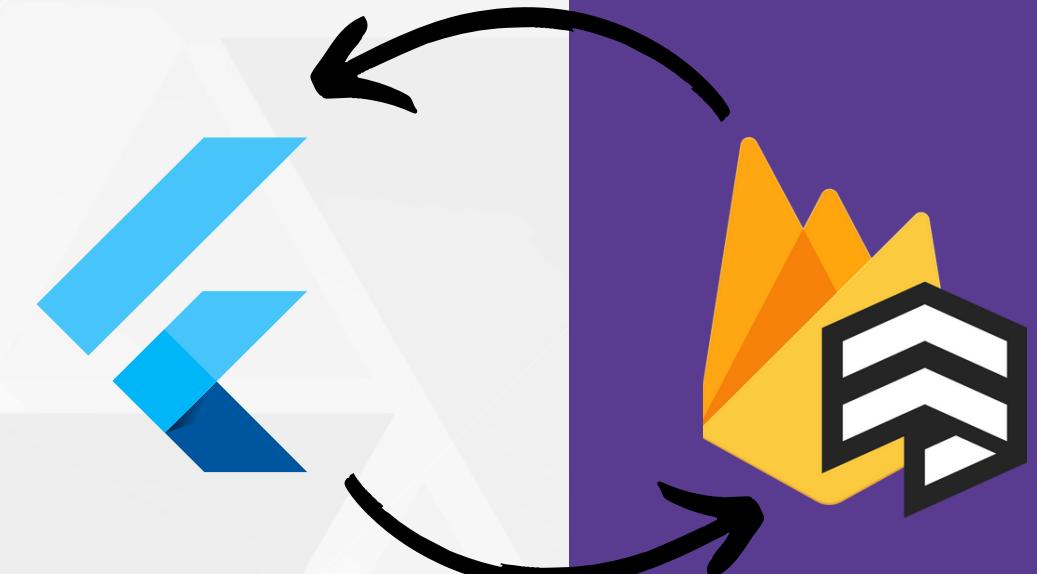
uid: "ta2rb6S8Z9WojsBNVtYANwjiEvV2"

Database location: nam5



FIRESTORE (GROUPS) INTEGRATION

- All the groups which are created are shown here , with unique groupId which are randomly generated.
- This even shows what is the name of the group ,what are the recent messages and how many members of the group etc.



Firebase

testchat ▾ Cloud Firestore

Project Overview

Project shortcuts

Firestore Database

Storage

App Check

Authentication

Realtime Database

Product categories

Build

Release & Monitor

Analytics

Engage

All products

Spark No-cost \$0/month

Upgrade

Database location: nam5

Cloud Firestore

groups > WNMYj3oKcKb...

(default)

+ Start collection

groups

users

groups

+ Add document

GeaF45T7DfuAWptQMtcw

Hefo7ogGr6D40D93GNFm

WNMYj3oKcKbNaCUQAEZR

X33FIcko0WjU8zrlY58M

dg0Dxk527YIS6d6TpWWh

j5bz75E4GzV6a1f4IL2U

nHpM7nNDqpo4XvDF1u10

nXFcfb7hdYwy7re9qpEl

q0YzLJPgYMxqTrGrsnK3

qVBmU3CmGHY2wttVz0sU

WNMYj3oKcKbNaCUQAEZR

+ Start collection

messages

+ Add field

admin: "JUiYNujP92bgaO50IhrM7mNqmCH3_Kasu Sai Kartheek Reddy"

groupIcon: ""

groupId: "WNMYj3oKcKbNaCUQAEZR"

groupName: "Machine Learning"

members

0 "JUiYNujP92bgaO50IhrM7mNqmCH3_Kasu Sai Kartheek Reddy"

recentMessage: "Hello"

recentMessageSender: "Kasu Sai Kartheek Reddy"

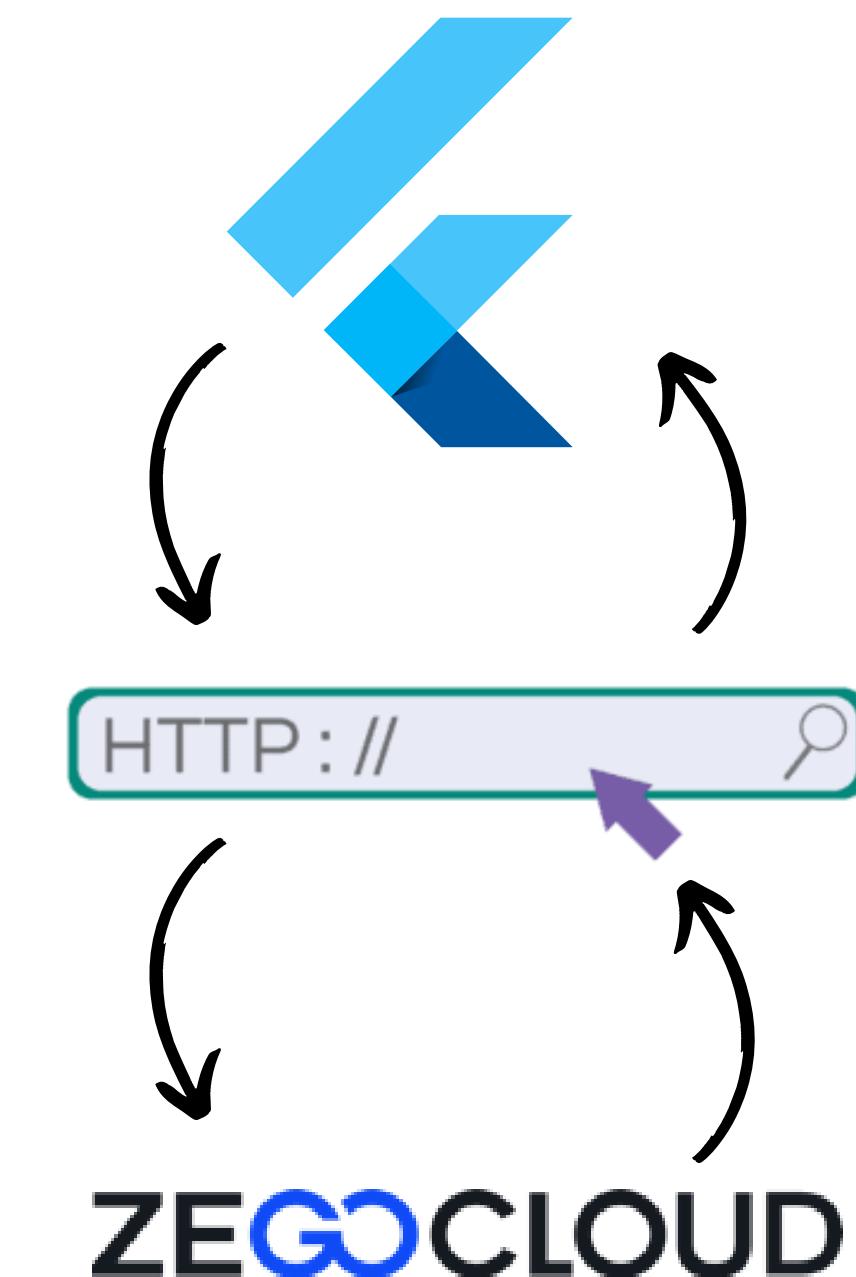
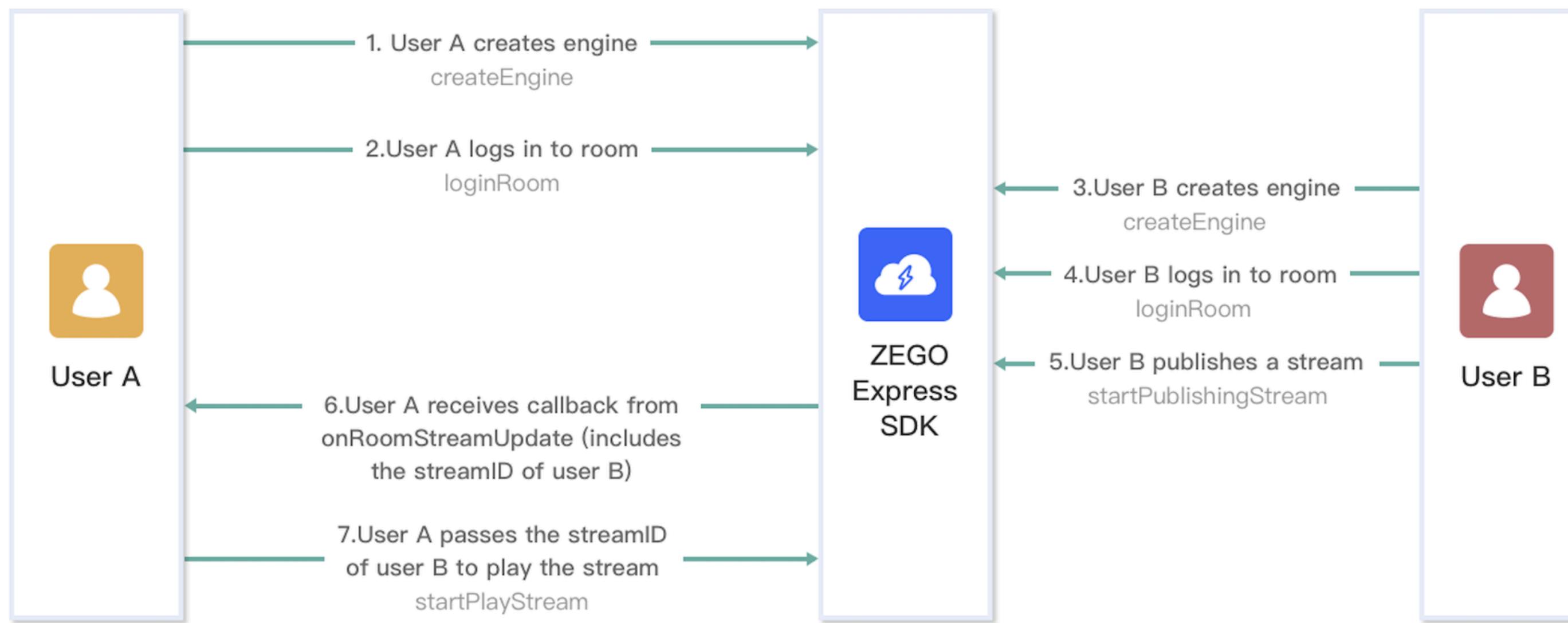
recentMessageTime: "1702745402692"

More in Google Cloud

INTEGRATION WITH ZEGO CLOUD PLATFORM

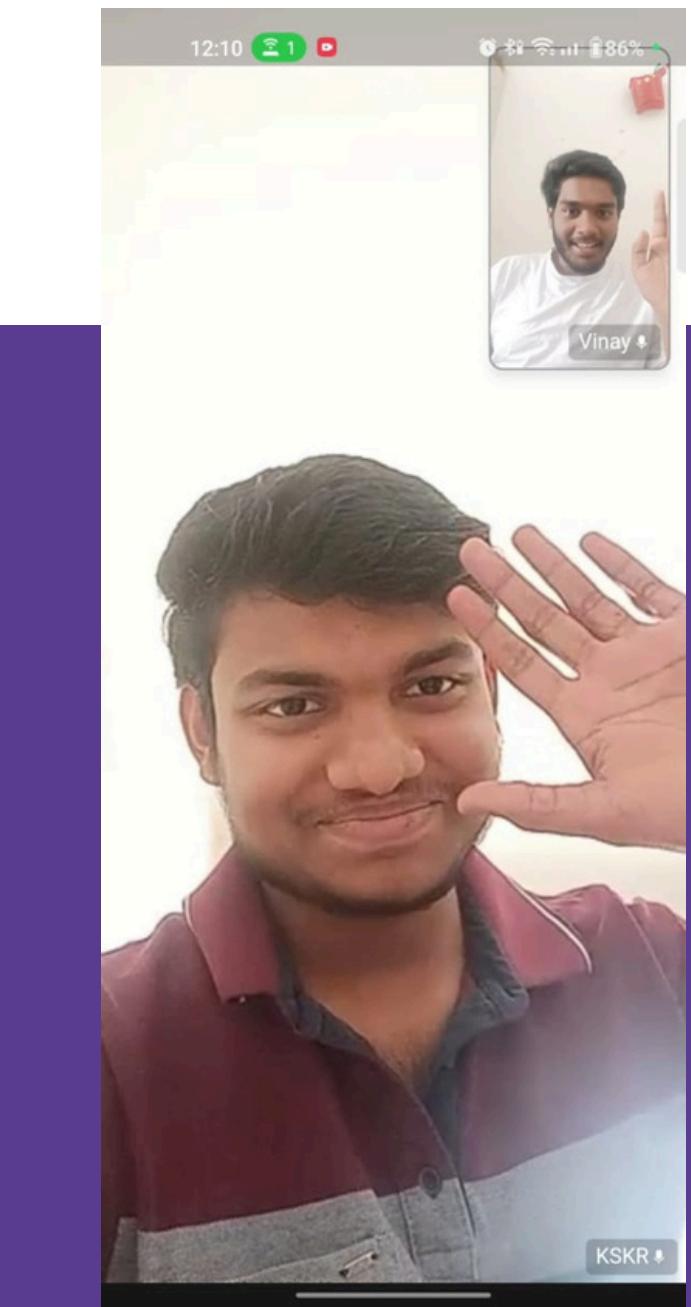
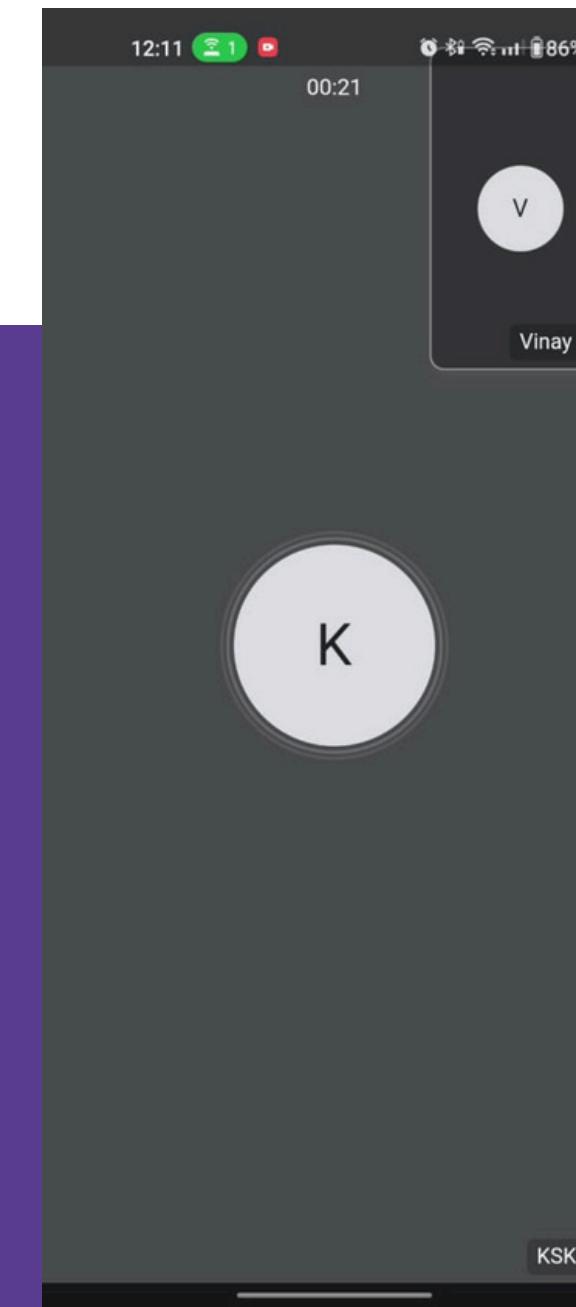
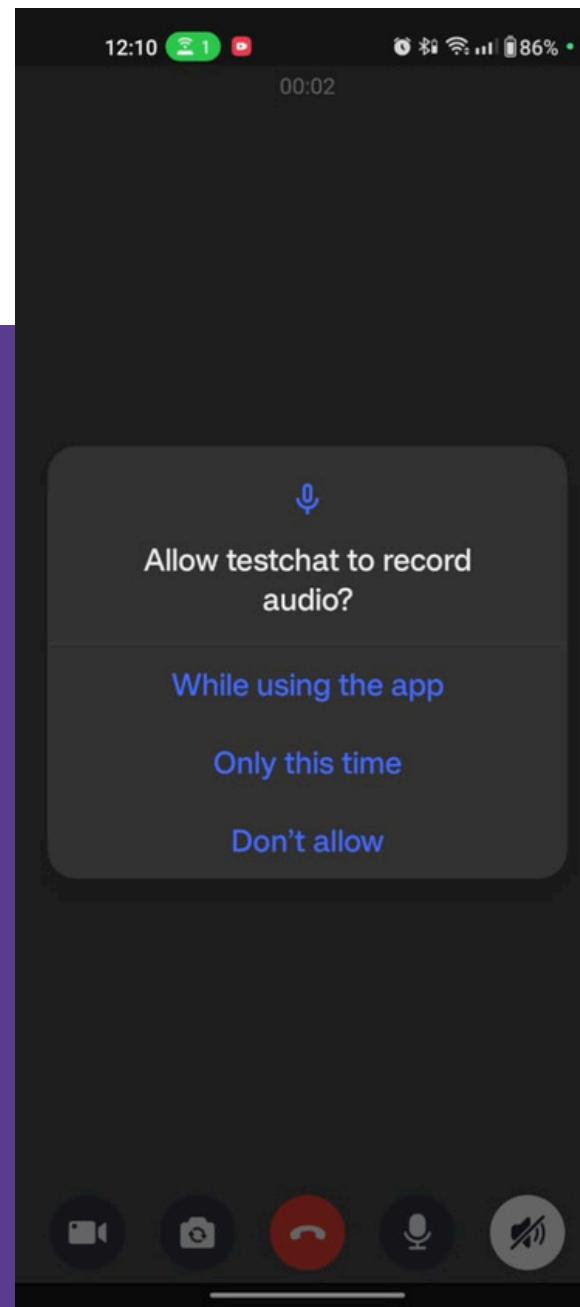


- The audio and video call in this app was integrated through zego cloud platform through api and http requests.
- We had used Flutter's **http** package to make HTTP requests. This allows our app to communicate with Zegocloud's APIs.



VOICE AND VIDEO CALLS

- All the voice calls and video calls can be accepted only after giving the permission to audio and video.
- These calls are done through same id's between two persons and done without sharing of their phone numbers.



THANK YOU
