TALKIE

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INTRODUCTION

Talkie is an Android Chatting Application inspired by LINE, Whatsapp, Viber, etc. It's basically simulating a Private Chat (Person to Person Chat).

Problem & Solution

Problem

User Authentication

Solution

Use Firebase Authentication

Firebase Authentication

E-mail

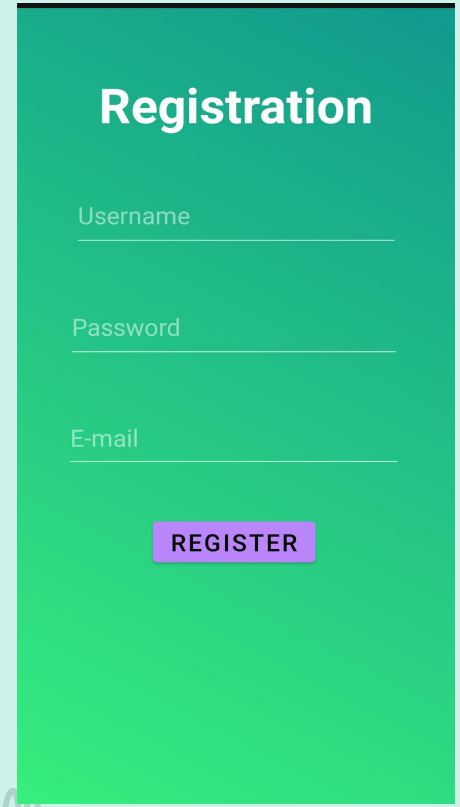
User ID

Identifier	Providers	Created	Signed In	User UID
62011135@kmitl.ac.th	✉	Nov 10, 2020	Nov 22, 2020	HoVudDwHw8gW3M8FN8HJ6TSq...
karnbongkot@gmail.com	✉	Nov 10, 2020	Nov 19, 2020	IV5FmgzwWcM06JKc1igmAEDbit...
62011127@kmitl.ac.th	✉	Nov 11, 2020	Nov 11, 2020	zh2nemhXLCQfYAMj3uzSQdAwotI2

Registration

New users can create their account

Put user's information on to Firebase



A

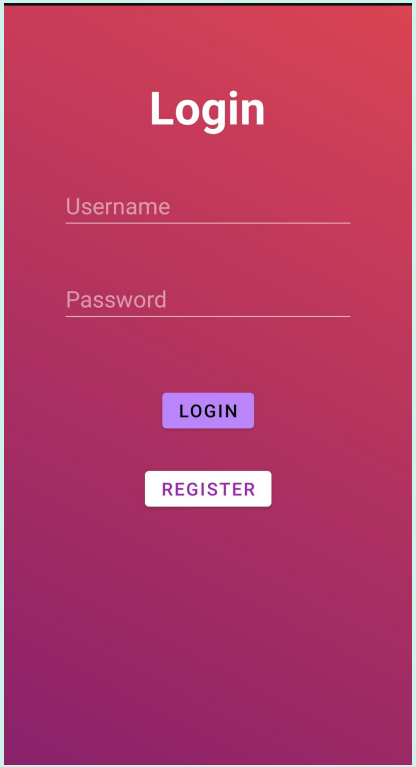
B

Login

Check user's information with accounts on Firebase

If the information matches, take user to main activity

If not, give a Toast error



Problem & Solution

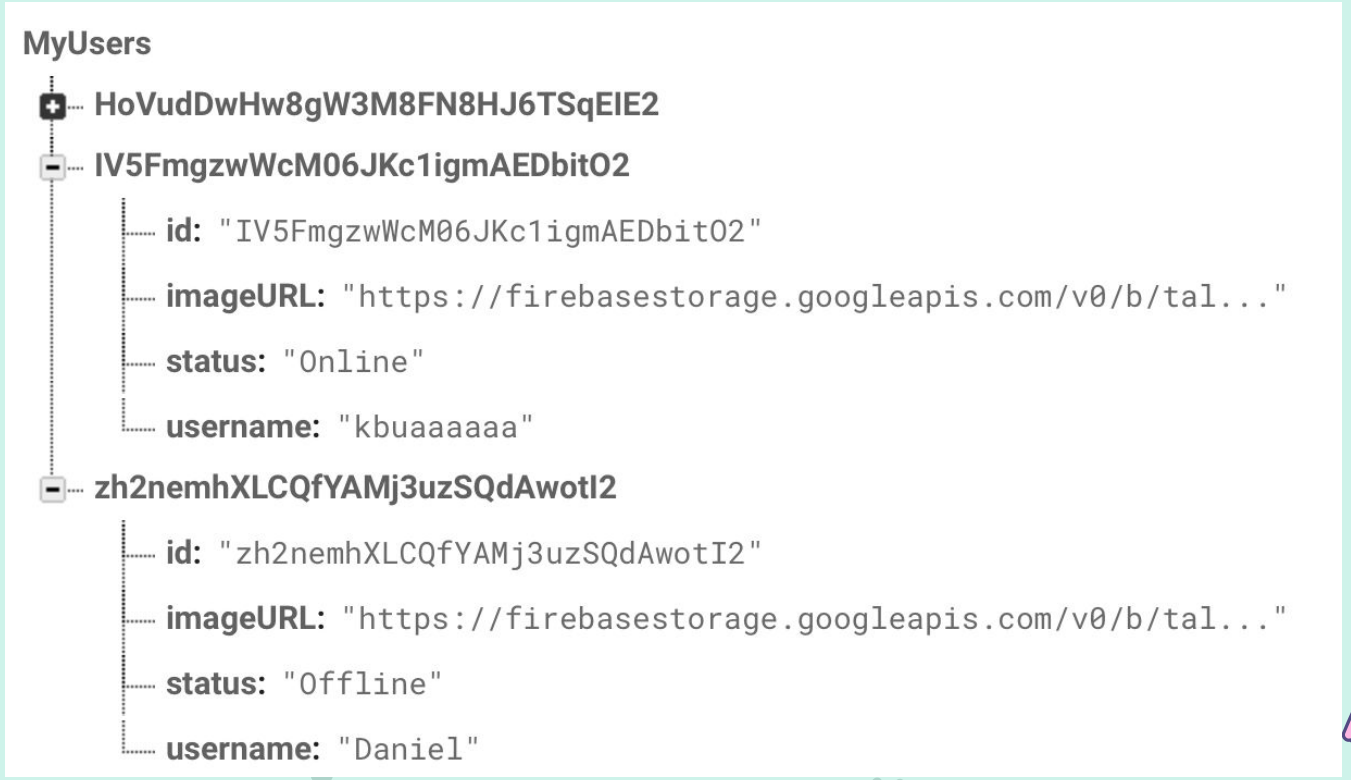
Problem

Saving user information

Solution

Use Firebase Realtime Database

Firebase Realtime Database



Problem & Solution

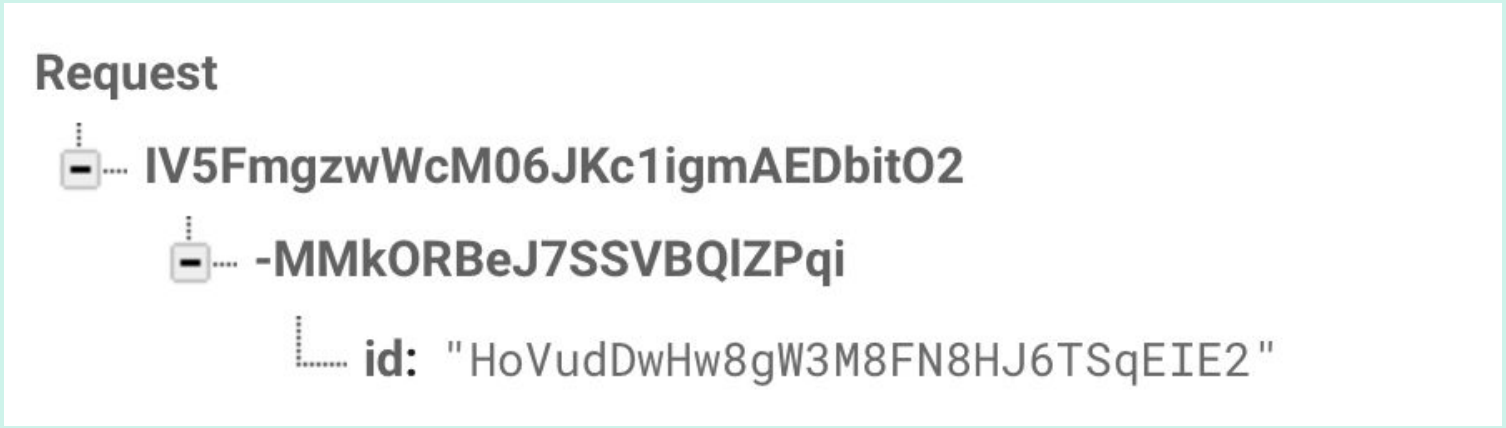
Problem

Adding other users

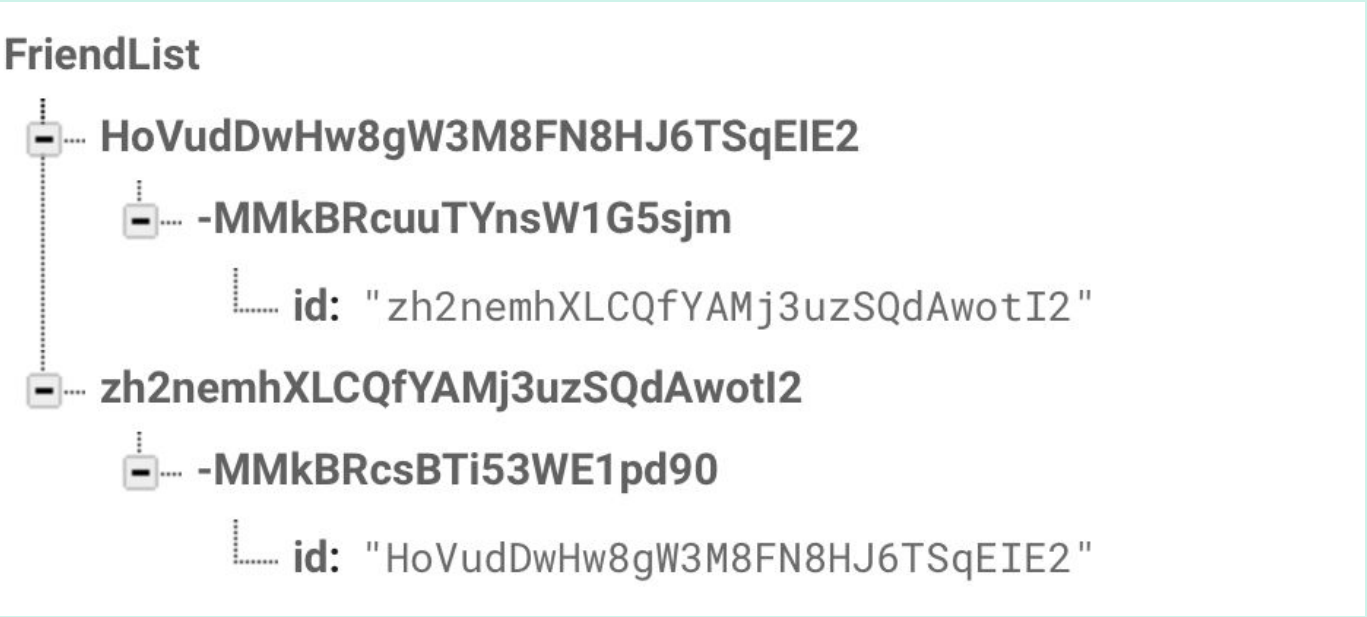
Solution

Use Firebase Realtime Database to search for other users, store requests and Friend list.

Firebase Realtime Database



Firebase Realtime Database

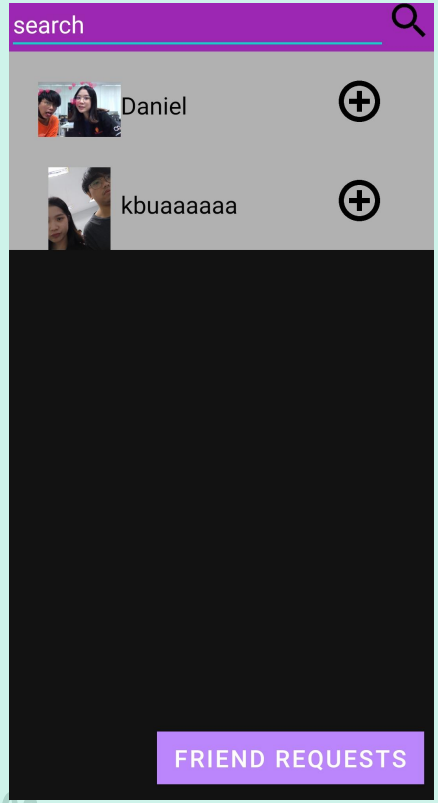


Search for other user

User click search button

Query data from Firebase and list them down

When user click the add button, request will be store in Firebase

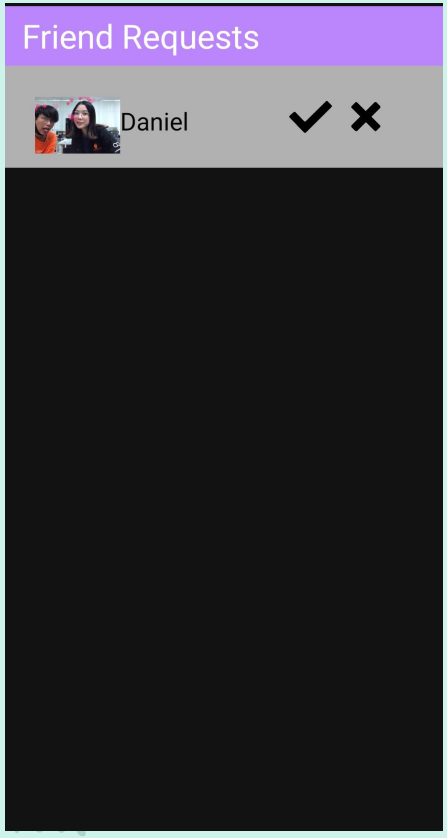


Friend Requests

List user's request from Firebase

Click accept, that user's ID will be added to their friend list

Click decline, the request will be removed



Problem & Solution

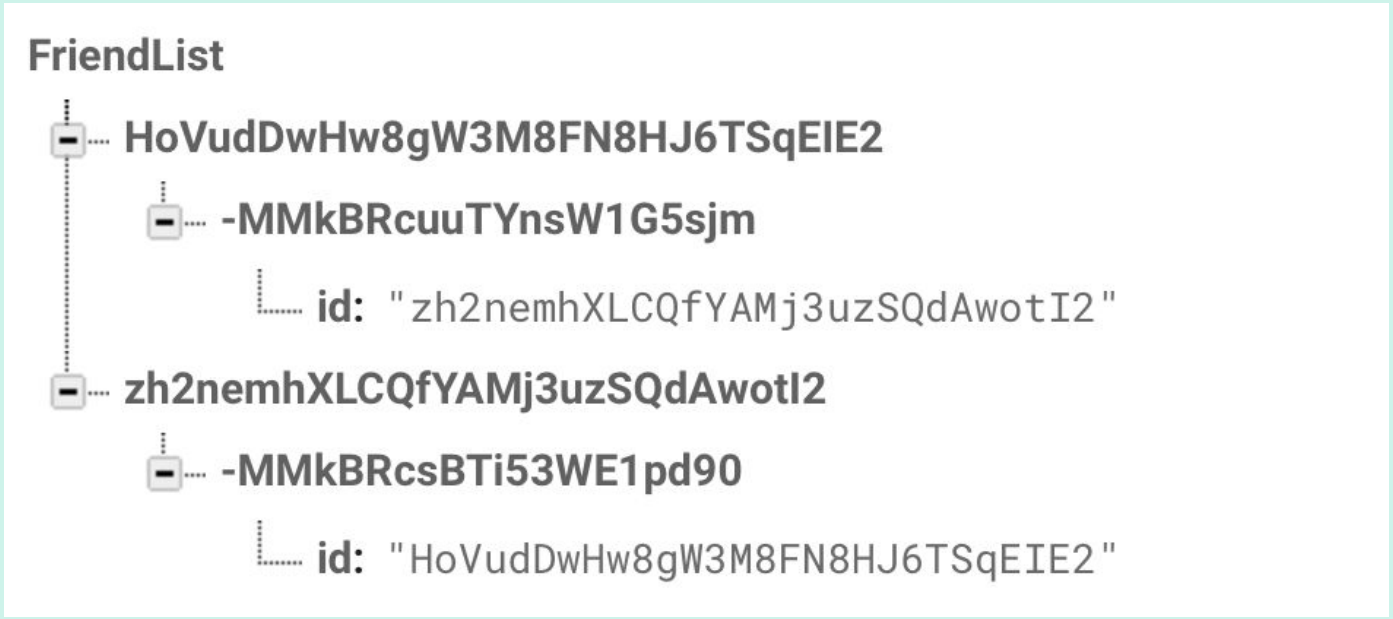
Problem

Contacts and list of user's chat

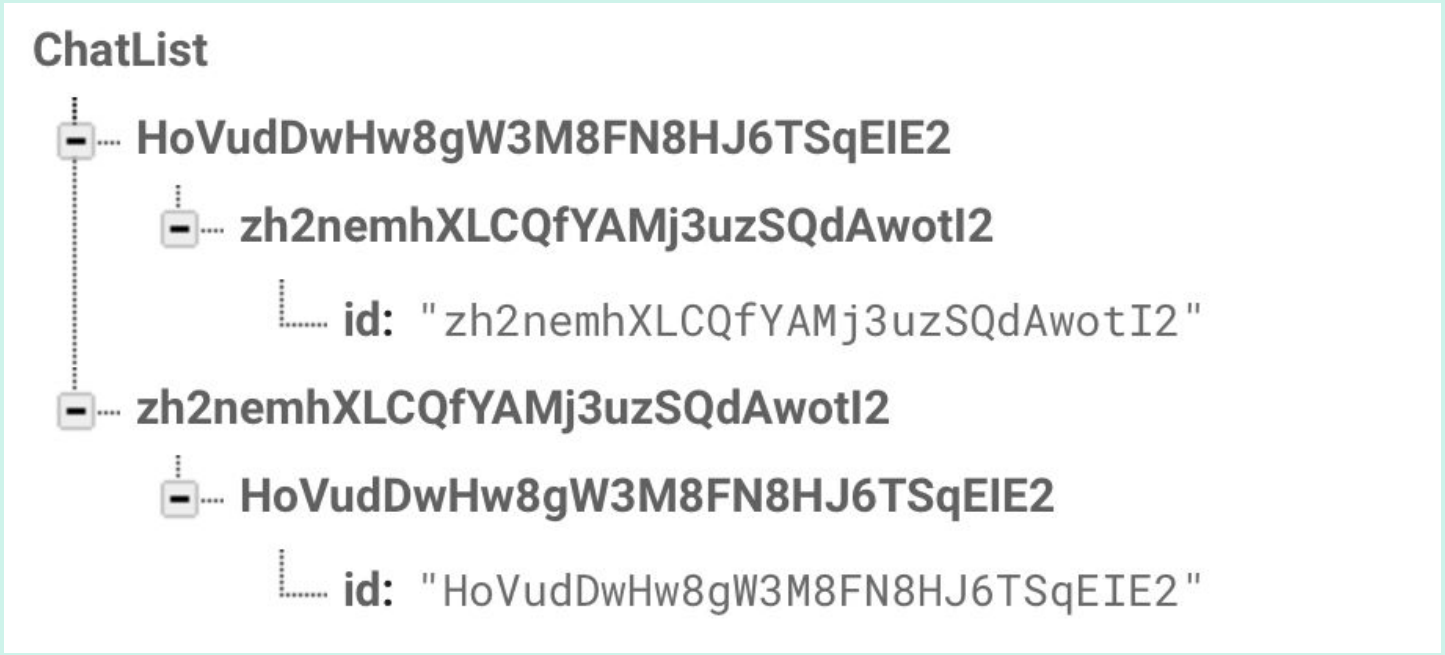
Solution

Use Firebase Realtime Database to store list of user's contact and conversation.

Firebase Realtime Database



Firebase Realtime Database

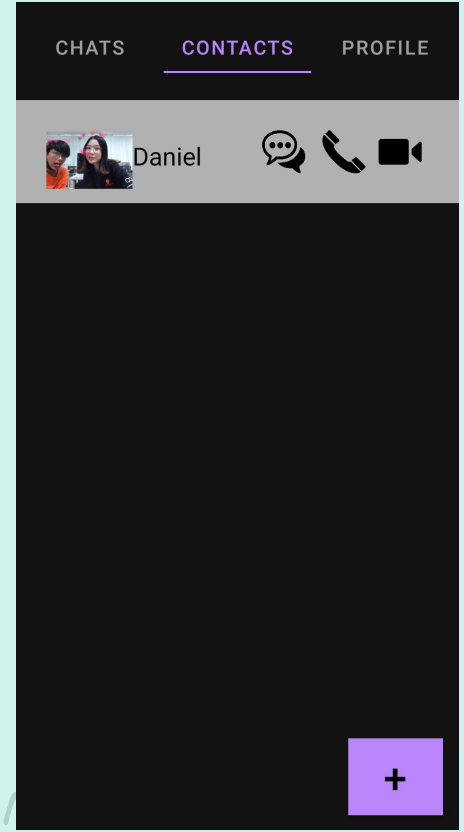


Contact

List user's contacts from Firebase

The "+" will direct user to the adding activity

Future plan : groups



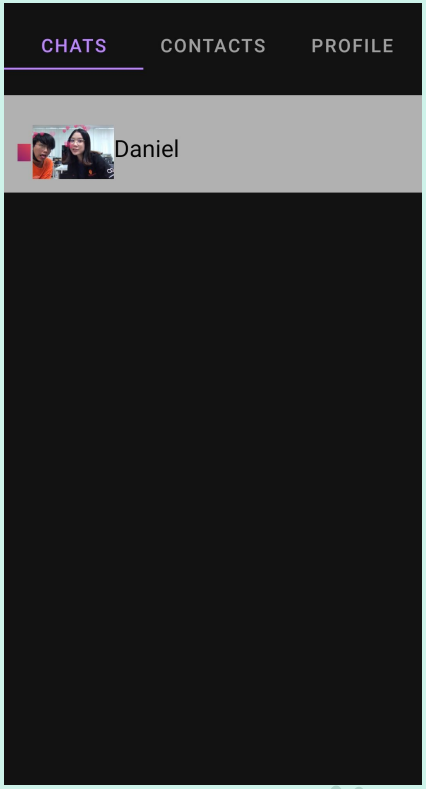
A

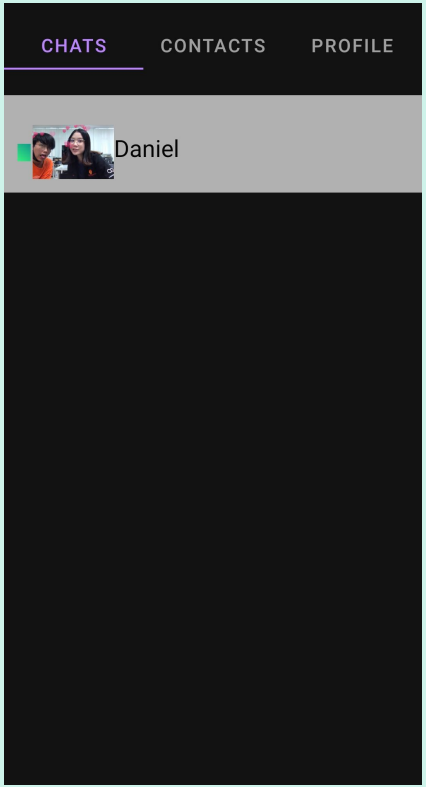
B

List of Conversation

List user's conversation

Show the status of user's contact (Offline/Online)





Problem & Solution

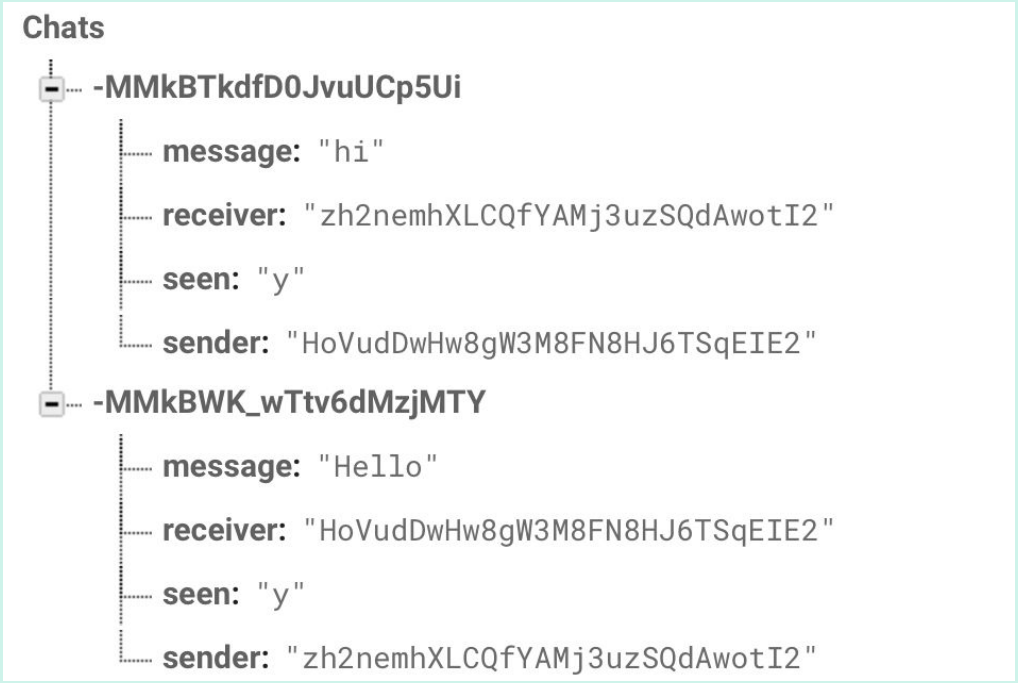
Problem

Chatting

Solution

Store messages on Firebase Realtime Database

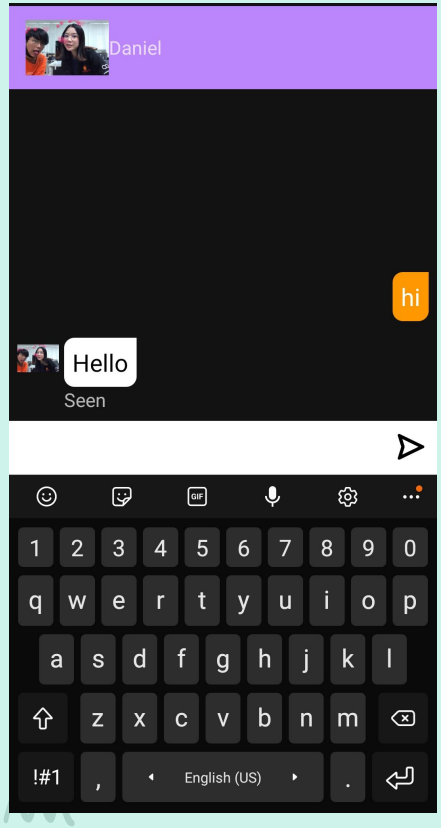
Firebase Realtime Database



Chat

List the conversation

Future plan : add options to send other types of media (video, pictures, voice message) , group chat



Problem & Solution

Problem

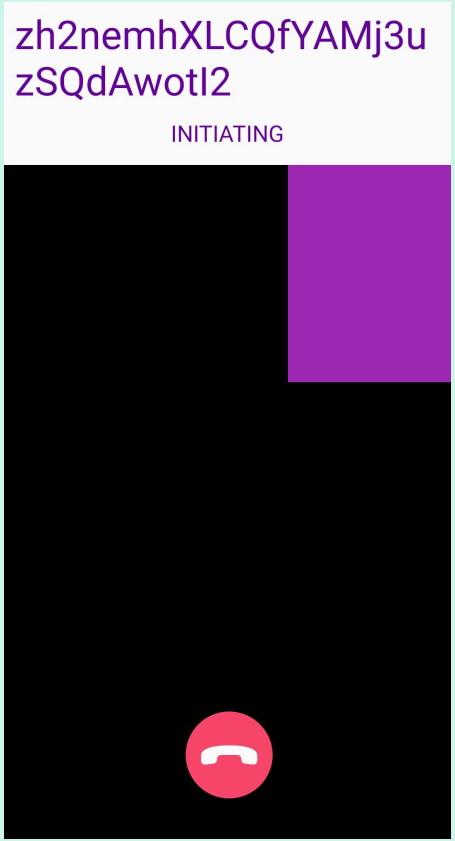
Calling/Video calling

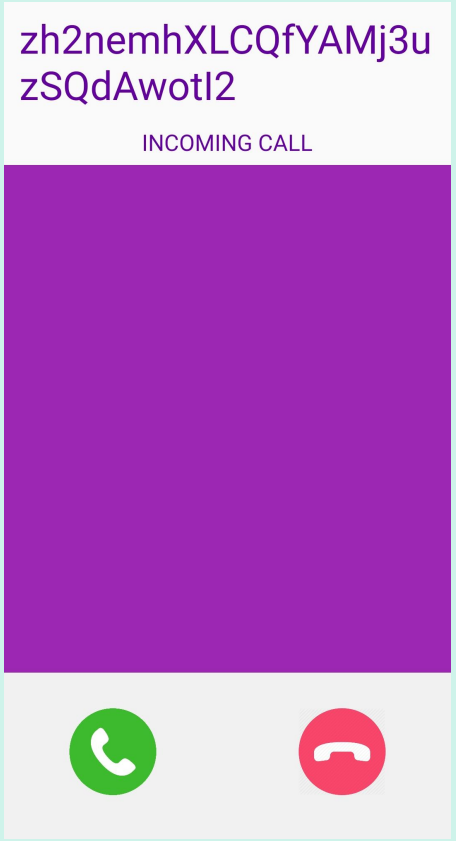
Solution

Use Sinch voice & video APIs

Calling

Future plan : show username instead of user's ID, show user's profile picture





Calling

Future plan :
show username, add mute audio, mute video , group call.

Sinch Logs

2020-11-22 20:46:01.000 +0700 a97f2374-69df-48e0-8add-b16a8d53143e	data origination	HUNG UP	39 s 0.0000 USD	Talkie
2020-11-22 20:45:45.000 +0700 641abd2f-2eb8-4ac0-bacb-e2a46eb0a261	data origination	CANCELED	0 s 0.0000 USD	Talkie
2020-11-22 20:45:34.000 +0700 b277b2c6-c7aa-4405-ab54-72823f05ddb4	data origination	CANCELED	0 s 0.0000 USD	Talkie
2020-11-22 20:45:20.000 +0700 6d574661-b59a-4753-ae3c-231628212e64	data termination	DENIED	0 s 0.0000 USD	Talkie

THANK YOU