Chat app

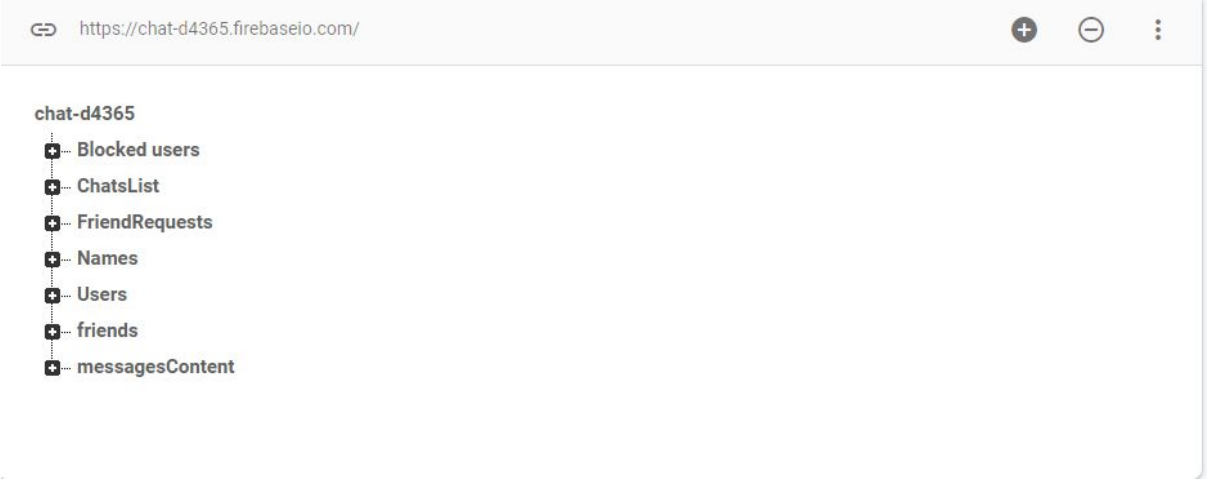
Overview:

Simple android chat app that provides :
adding friends, blocking users, sending requests, sending messages, sending photos, notifications ,deleting accounts , simple profile for the user, logging in and out ,searching users by name and sync to contacts to find people whom you know.

Structure of data:

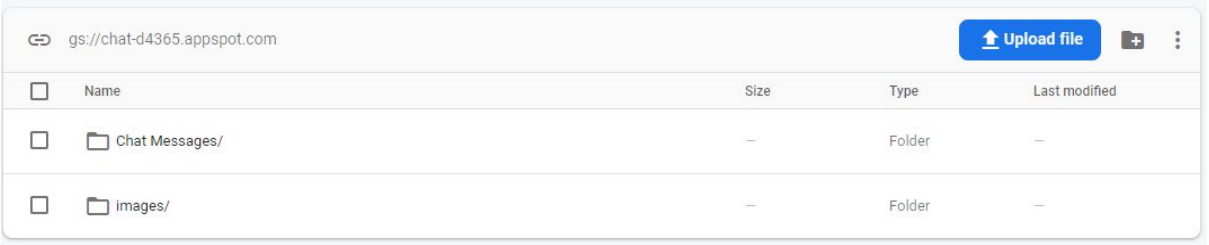
- Used google firebase with its features.
- Used a realtime database to store users' data and messages,used storage to store photos of users and photos that were sent by users.
- Used firebase authentication to store users' email and password
- Used cloud messaging to send request notifications between devices.

A screenshot from Firebase database:



- **Blocked users** : used to store blocked users'IDs for every user.
- **Chats list** : used to store Chats list and last message for user's chats.
- **Friends requests** : used to store requests for user.
- **Names** : used to store user names to allow search users by name.
- **Users** : used to stote users data like name,status,profile picture's url and etc.
- **Friends** : used to store user's friends'IDs.
- **Messages content** : used to store messages between users with the key of two IDs of the users to avoid duplication.

A screenshot from storage:

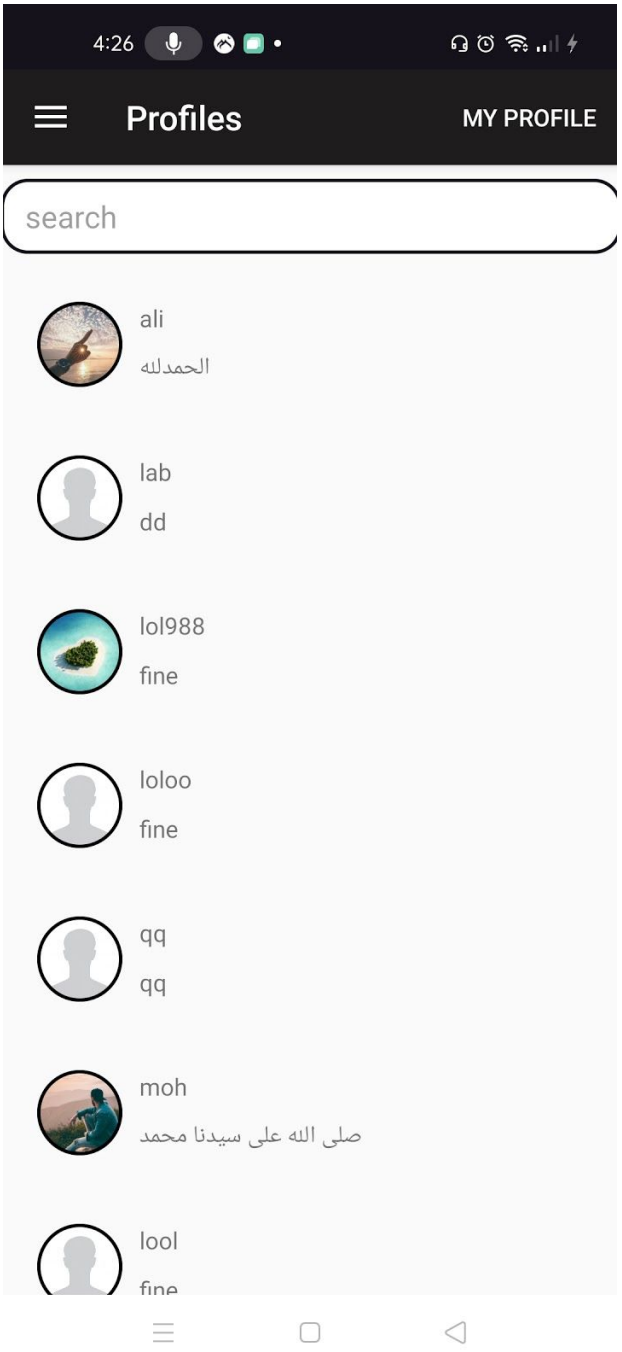


- **Chat messenger** : used to store photos that are sent in chats.
- **Images** : used to store profile pictures.

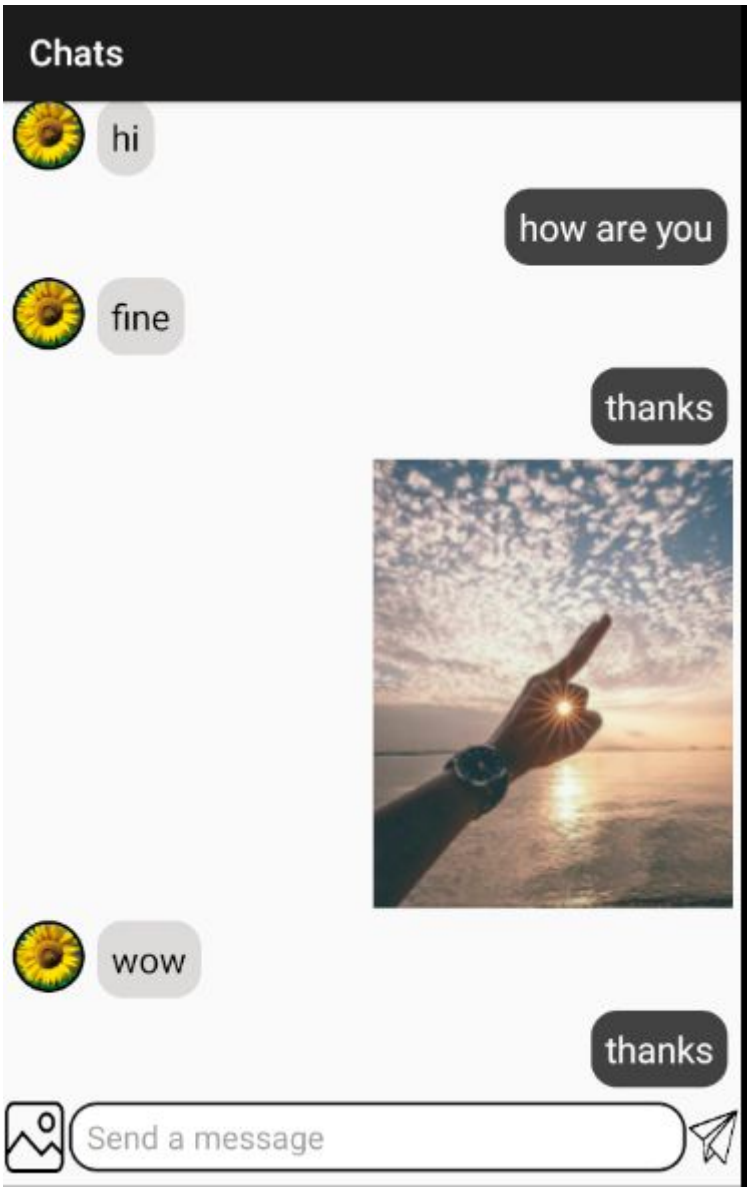
Structure of project:

projects relies of three main activities:

- **Front activity** which used to display data of friends,requests,chats and users. It has a recycler view with four adaptes switching between them to display different data.



- **Chat activity** which used to display messages between users. It has a recycler view to view messages between users.



- **User profile activity** which used to display user’s data.