

Chat app

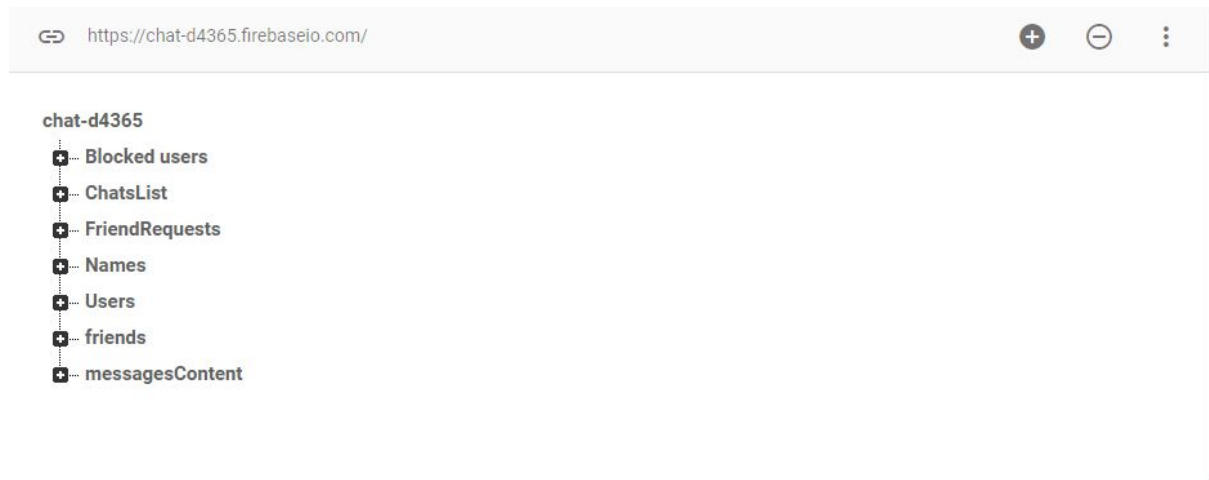
Overview:

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:

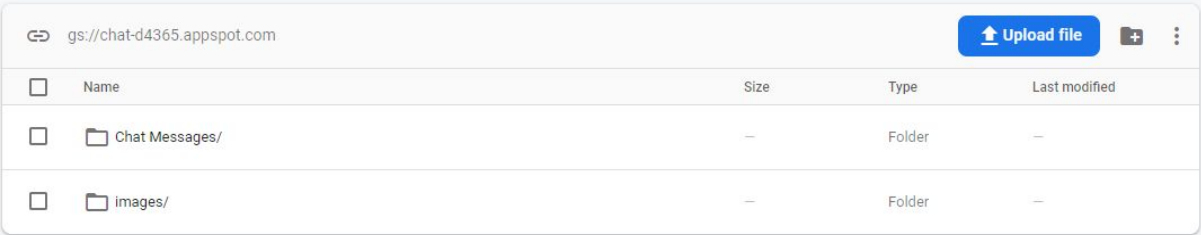
- Used google firebase with its features.
- Used a realtime database to store users' data and messages,used storage to store photos of users and photos that were sent by users.
- Used firebase authentication to store users' email and password
- Used cloud messaging to send request notifications between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



The screenshot shows a web interface for Google Drive storage. At the top, there is a URL bar with the address 'gs://chat-d4365.appspot.com' and a blue 'Upload file' button. Below the header is a table listing the contents of the storage. The table has four columns: 'Name', 'Size', 'Type', and 'Last modified'. There are two rows representing folders: 'Chat Messages/' and 'images/'. Each row has a checkbox on the left, a folder icon, the folder name, a size of '—', a type of 'Folder', and a last modified date of '—'.

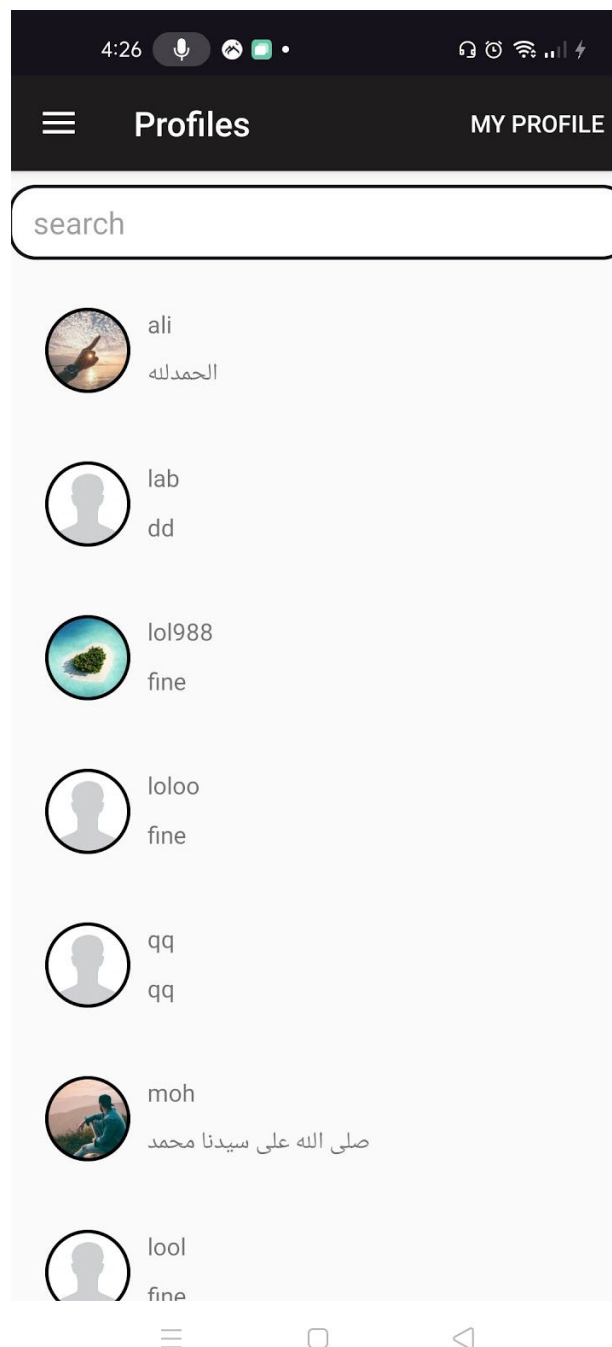
<input type="checkbox"/>	Name	Size	Type	Last modified
<input type="checkbox"/>	 Chat Messages/	—	Folder	—
<input type="checkbox"/>	 images/	—	Folder	—

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

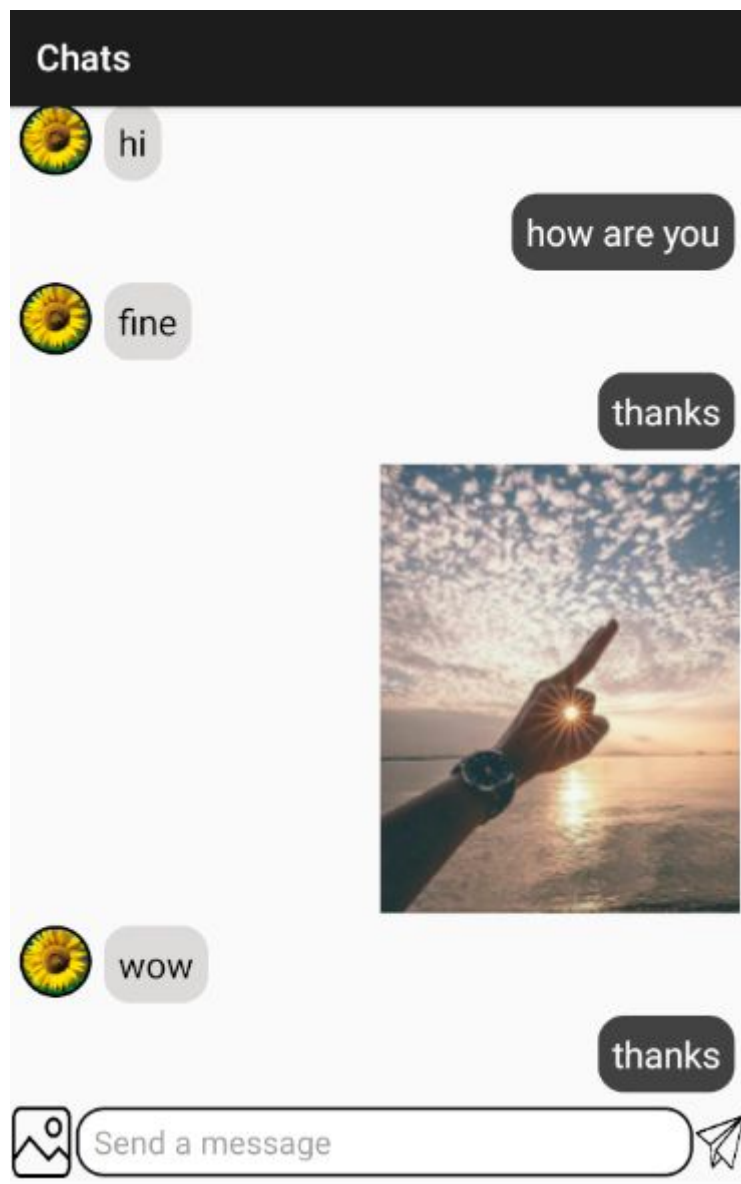
Structure of project:

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.

