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<-This is the Intro of my APP

"Voice Assistant App with ChatGPT & Dall-E" is an exciting app that combines the power of AI to make your chats more interesting. You can chat, create images, and even have responses read to you. Plus, your chat history is safe, and we've got you covered if you forget your password. We've implemented a secure Firestore database and seamlessly integrated two powerful APIs - OpenAI for text and DALL-E for image generation. And the best part? We've crafted this app using Flutter, making it a seamless and user-friendly experience. It's your new way to chat and get creative with AI!

<-**Navigatable pages** The application is composed of four distinct pages: the Authentication Page, Home Page, Chat Page, and Settings Page. Additionally, the app offers both dark and light themes for user customization.

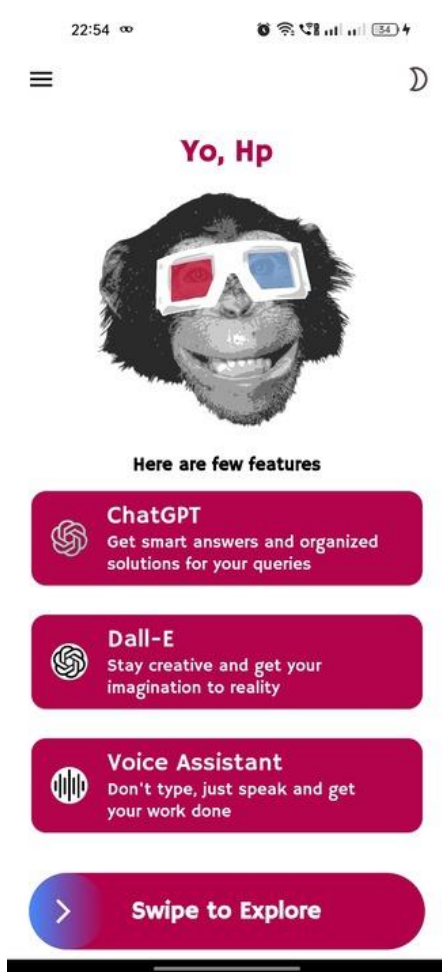
1)Login/Signup Page

The image displays two side-by-side mobile app screens for authentication. Both screens have a status bar at the top showing the time 22:53, signal strength, Wi-Fi, and battery level at 34%.

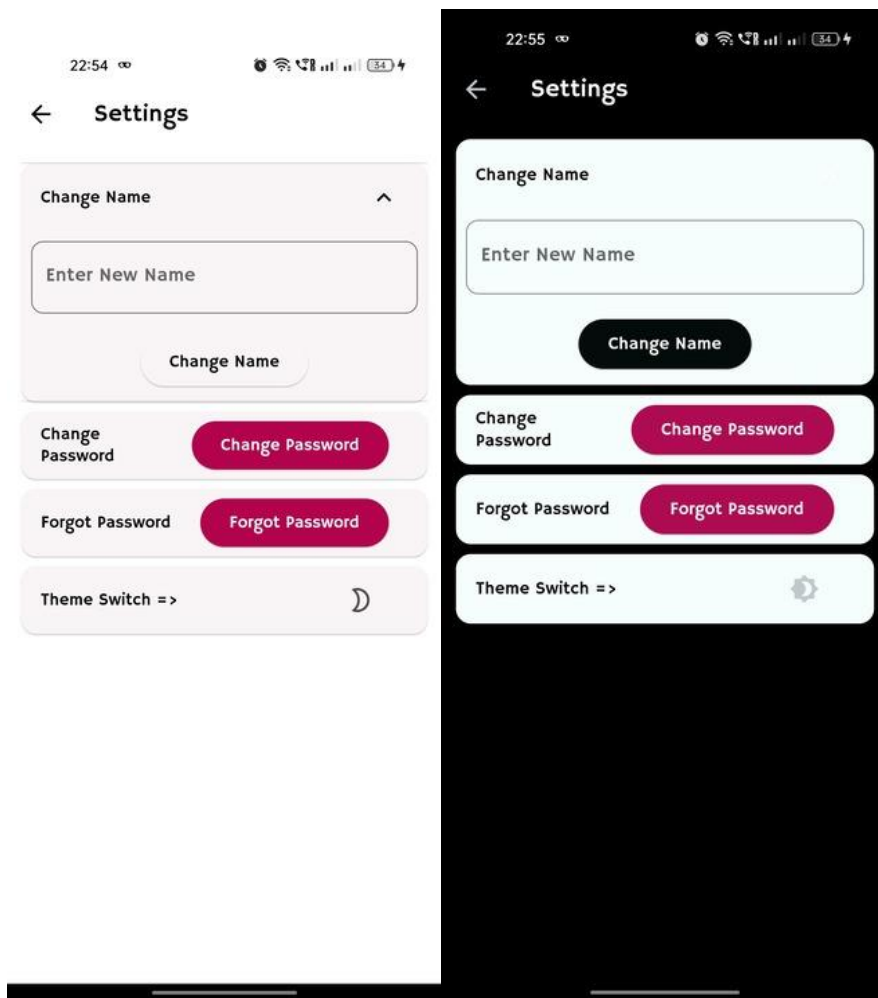
Left Screen (Welcome): Features a cartoon monkey wearing a black cap and colorful, multi-colored sunglasses. Below the image are two input fields: "Username" and "Password" (with an eye icon for toggling visibility). A "Forget Password" link is positioned below the password field. At the bottom is a large magenta "Login" button. Below the button, the text "Don't have an account?" is followed by a magenta "Sign up" link.

Right Screen (Sign Up): Features a cartoon monkey wearing 3D glasses. Below the image are three input fields: "Username", "Full Name", and "Password" (with an eye icon for toggling visibility). At the bottom is a large magenta "Register" button. Below the button, the text "You already have an Account?" is followed by a magenta "Login" link.

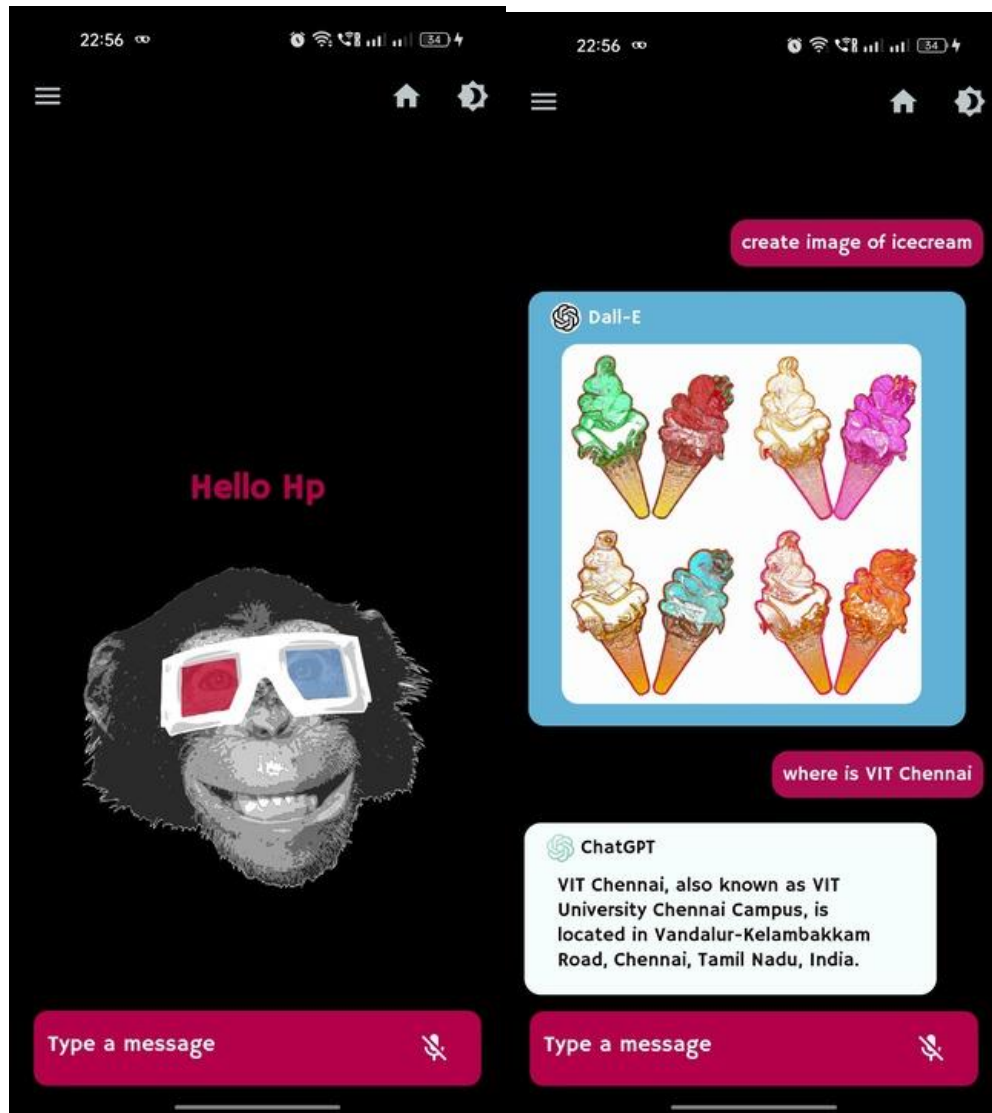
2)HomePage

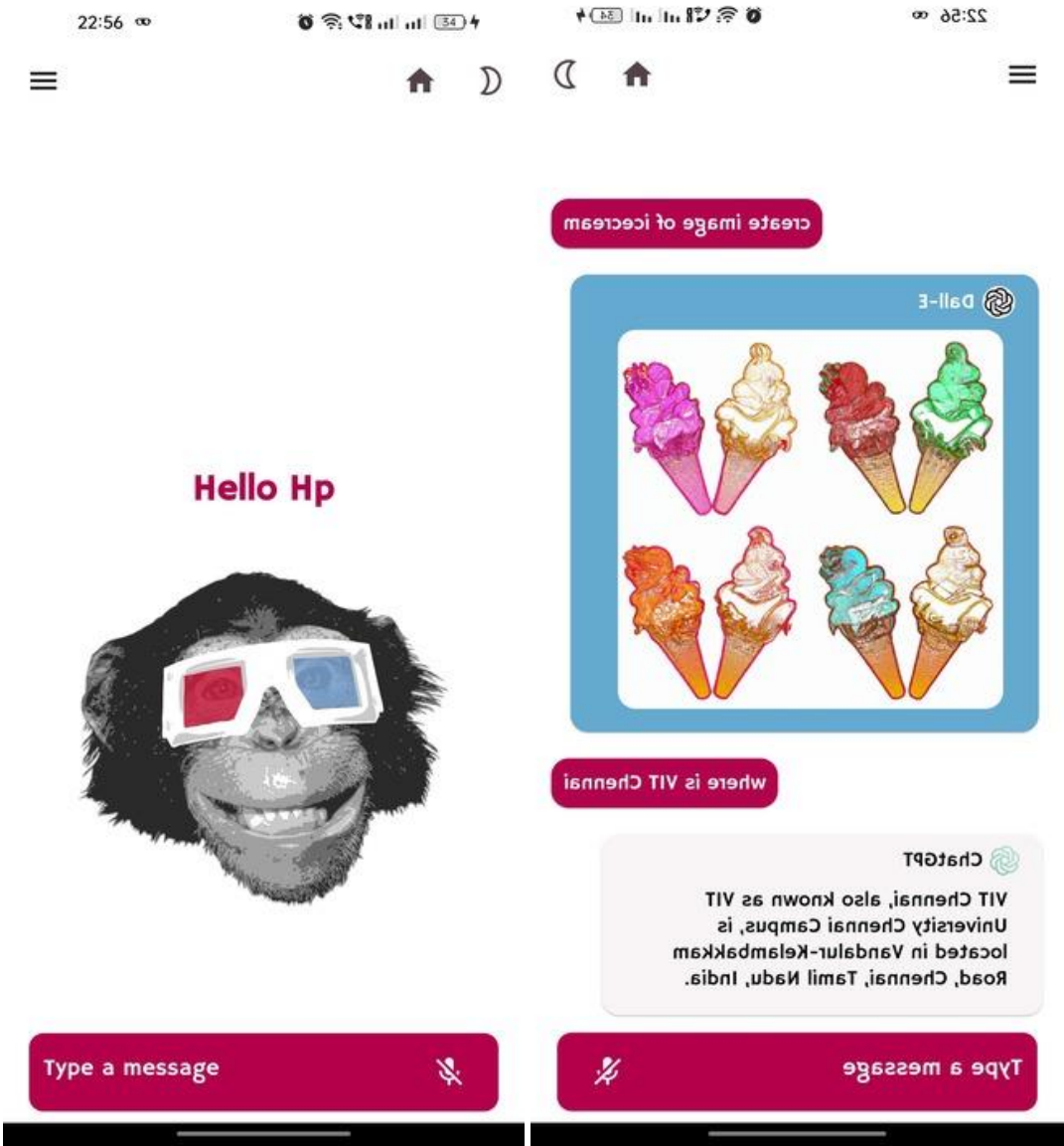


3) Settings Page



4) Chat Page





<-API call Implementation

1)Firebase APIs:

- a)FirebaseAuth: This API is used for authentication and user management within your application.
- b)Cloud Firestore: This API is utilized for storing and managing your application's data in a NoSQL database hosted on Firebase.

2)OpenAI APIs:

- a)ChatGPT-3.5-Turbo: This API, powered by OpenAI's GPT-3.5 Turbo, is integrated into your application for generating human-like text responses. It enables interactive and dynamic conversation capabilities.
- b)Dall-E: This API, likely referring to OpenAI's DALL-E, is used for generating images from textual descriptions. Please note that you've mentioned the API key for these services is stored in Firebase for secure access. This project utilizes Firebase APIs for authentication and data management, and OpenAI APIs, including ChatGPT-3.5-Turbo for text-based interactions and DALL-E for generating images from textual descriptions. The API keys for these services are securely stored in Firebase.

<-Design Inspiration Link

<https://www.figma.com/file/DbgctMxCEyCCziMWhV003X/Gpt?type=design&node-id=0%3A1&mode=design&t=0ZJJMuQpJ8nKaUmm-1>

<-Process to how to run the Project

- 1) Clone the project into any directory using the following command -
https://github.com/PapaBiju/VoiceGpt_app.git
- 2) Open terminal in the directory which you've cloned and type the following command - "flutter pub get".
- 3) Install flutter in your system before running the project and install the necessary plugins flutter and dart.
- 4) Recommended editor - VSCode
- 5) Now, select a device and run the project using the command - flutter run.
- 6) The app will run seamlessly on your selected device.
- 7) To use the voice features of the application, you need to run the app on the physical device instead of the emulator.
- 8) Ensure you have good internet connection while running the APP. To directly download the application into your mobile, go to this drive link and download the apk file -
https://drive.google.com/drive/folders/188rqgQhvXdOVNdOaRwA4Jm19f_pjpZ3G?usp=sharing

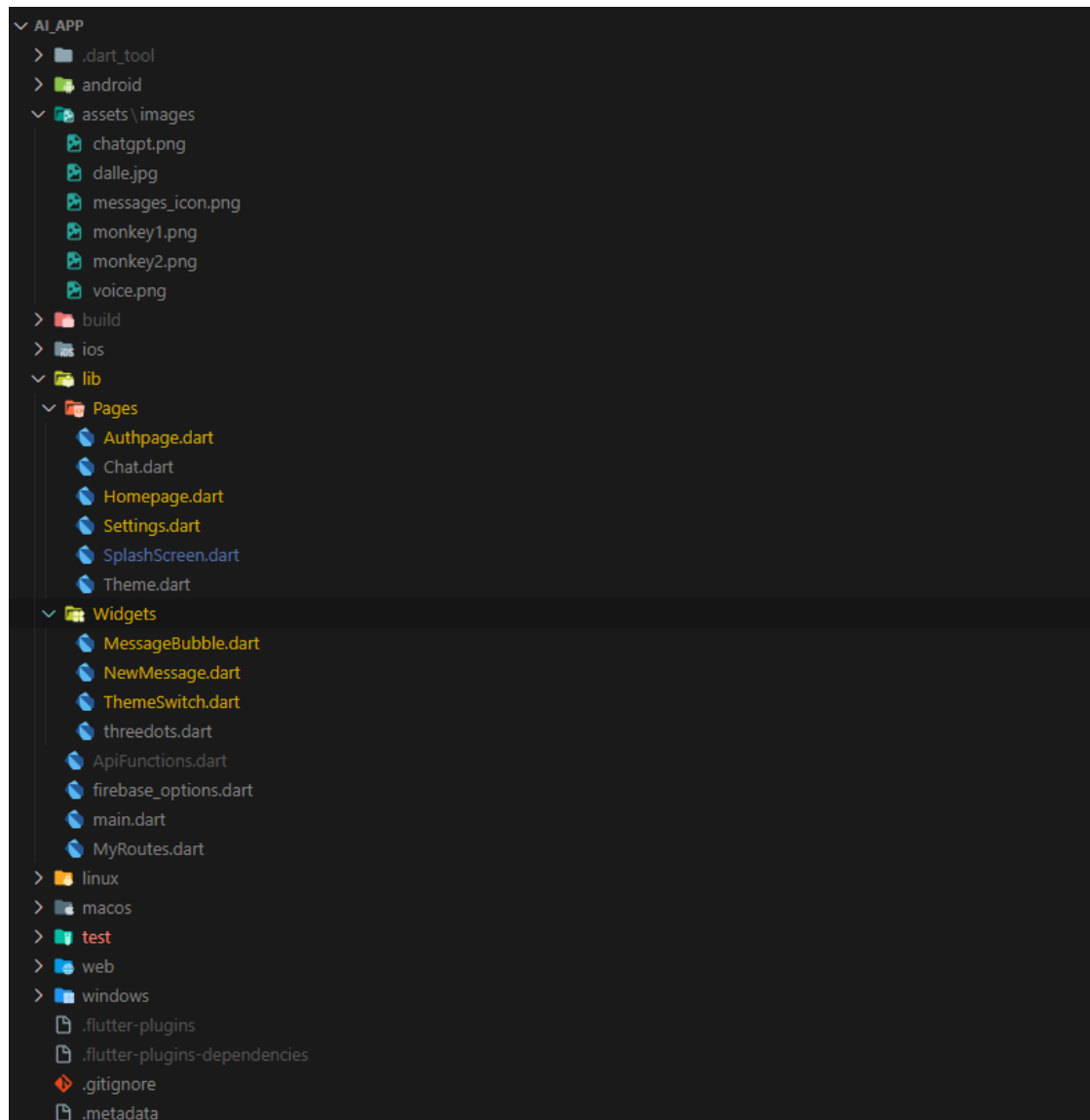
You may get a prompt like this - "This document might contain unsafe content. Make sure you trust the sender before you open it". Please ignore this prompt and click on

Open/Accept. Now after opening the file give the app all the required permissions, and then start using the app. While downloading the apk file you may get a prompt like this - "This document might contain unsafe content. Make sure you trust the sender before you open it". Please ignore this prompt and click on Open/Accept. Now after opening the file give the app all the required permissions, and then start using the app

<-Implementation

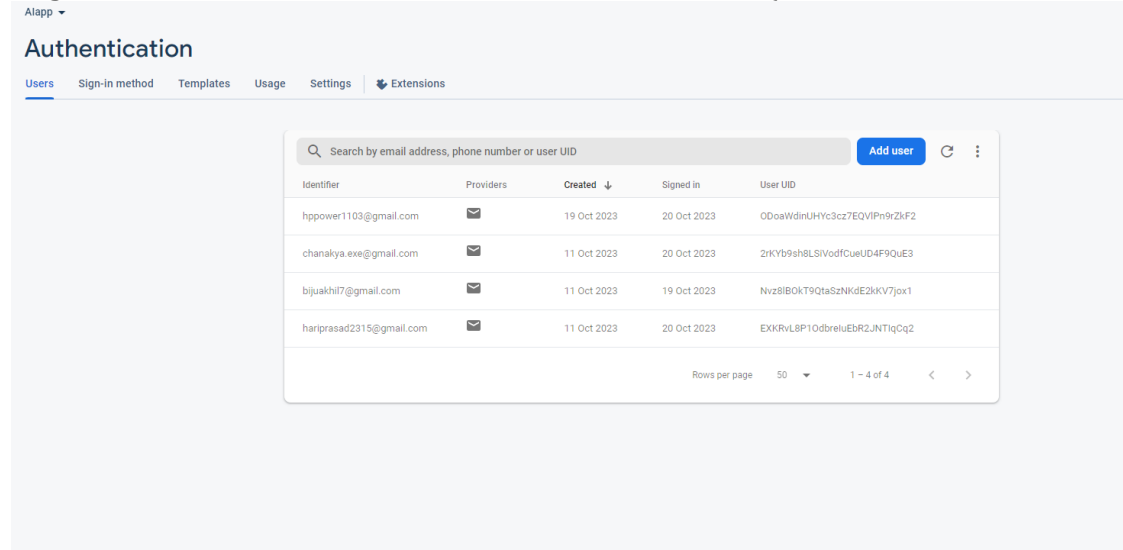
https://github.com/PapaBiju/VoiceGpt_app/assets/112795188/cd012e32-f9c3-4337-865f-671c8bd85362

<-File structure



<-Database Implementation / Data structure used

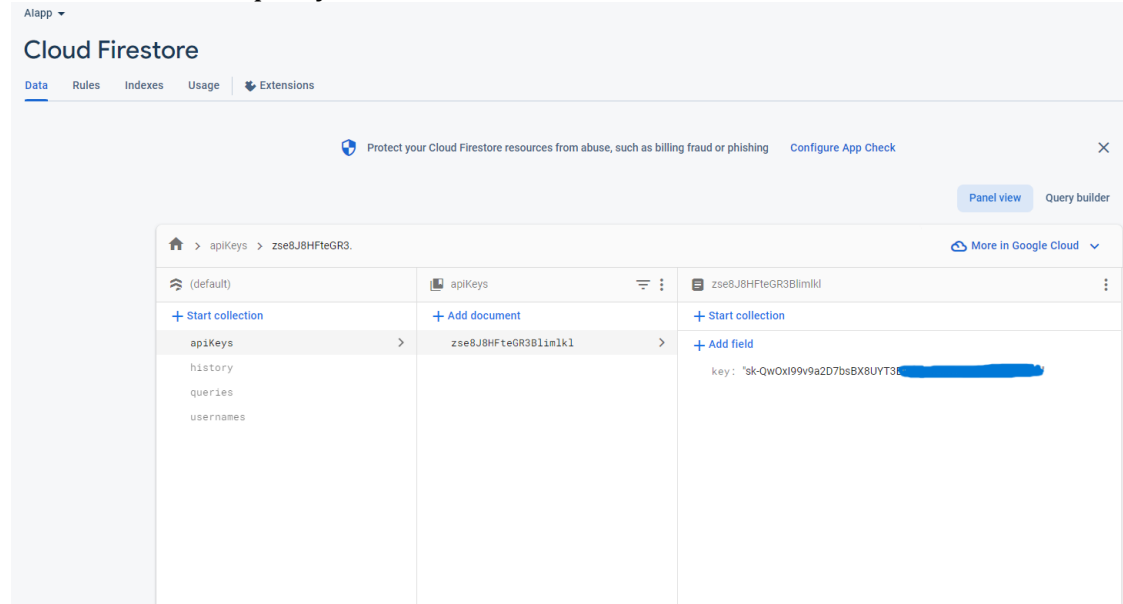
Firebase Authentication is responsible for managing user authentication and handling within the system. The application utilises Firebase as its designated database platform, where all queries and responses are stored. Additionally, the images generated are temporarily stored by OpenAI. DataStructure used by Firestore is List<Map<String,String> as given in below screenshots Firebase Authentication (3 Emails were used for testing):



The screenshot shows the Firebase Authentication console. At the top, there's a search bar and an 'Add user' button. Below is a table with columns: Identifier, Providers, Created, Signed in, and User UID. The table lists four users. At the bottom, there's a 'Rows per page' dropdown set to 50 and a pagination indicator '1 - 4 of 4'.

Identifier	Providers	Created	Signed in	User UID
hppower1103@gmail.com	📧	19 Oct 2023	20 Oct 2023	ODoaWdinUHYcz7EQVlPr9ZkF2
chanakya.exe@gmail.com	📧	11 Oct 2023	20 Oct 2023	2rKYb9sh8LSIVodfCueUD4F9QuE3
bijuakhi7@gmail.com	📧	11 Oct 2023	19 Oct 2023	Nvz8IBOKT9QtaSzNkdE2kKv7jpx1
hariprasad2315@gmail.com	📧	11 Oct 2023	20 Oct 2023	EXKRvL8P1OdbreUEbR2JNTiqCg2

Cloud Firestore: apiKey:



The screenshot shows the Cloud Firestore console. At the top, there's a navigation bar with 'Data', 'Rules', 'Indexes', 'Usage', and 'Extensions'. Below is a warning banner about protecting resources. The main area shows a breadcrumb trail: 'apiKeys > zse8J8HFteGR3'. There are three tabs: 'Panel view' (selected) and 'Query builder'. The 'Panel view' tab shows a tree structure with 'apiKeys' (default) and 'zse8J8HFteGR3Blimlk1'. The 'zse8J8HFteGR3Blimlk1' collection has a field 'apiKey' with a value that is partially redacted.

```
key: "sk-QwOxI99v9a2D7bsBX8UVT3s..."
```

History:

Alapp

Cloud Firestore

Data Rules Indexes Usage Extensions

Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing [Configure App Check](#)

Panel view Query builder

home > history > FODlqnhlqrcFRIL

(default) history FODlqnhlqrcFRILgdoxE

+ Start collection

- apiKeys
- history
- queries
- usernames

+ Add document

- 8aY3h7cWmHphVEGoAgcu
- 210awu71Xc1G8cPenT32
- 3Gz6bUrXG7hYcqZVUUr
- 4XGLC93EkNpc1tZKCEpq
- 8qfrP611mrHVrvVf5dEV
- AAS2xAvZ1WZw3aPo4a2n
- APnIT1A8uDLjH28yyYzP
- E6pSGB82Jypc6tp5Gzh
- FODlqnhlqrcFRILgdoxE
- G1Kr4CdznLa58Ipp1aG1
- IT024ENGbHmA7vLQ8eN4
- Ijbnuy818vhjgE8wEdt
- JX5dgWnU53HqbKsT7wbQ
- Ja3KQpFb4APnLMBAEClM

+ Start collection

+ Add field

heading: "generate image of cr..."

time: 19 October 2023 at 16:48:28 UTC+5:30

uid: "2rKYb9sh8LSivodfCueUD4F9Que3"

Queries:

Alapp

Cloud Firestore

Data Rules Indexes Usage Extensions

Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing [Configure App Check](#)

Panel view Query builder

home > queries > 1AP4s5t754aeK.

(default) queries 1AP4s5t754aeKtIGfgGy

+ Start collection

- apiKeys
- history
- queries
- usernames

+ Add document

- 1AP4s5t754aeKtIGfgGy
- 1rCOVPEUfmd39W7ntaB
- 2X8jRN4Kq5dsWJEGASE
- 2v71pfdp6AymcGtzzs8v
- 62tSoxAHBe1XJW5nWYMD
- 8FSN81jMbvtNqgJVULPH
- 9kLq1bzs9WmgvA8oqB91
- AMra6KLzmXrAZW7c8JbC
- DG5DSNjxkCjDbR6ixXB r
- F7zXrVJEdIz3k8a4axQe
- FCoWFNaoj1HdXY3yFcTD
- FENA8ErUPzVt0FSNuoff
- FgKxZhMw83ERHFukNcE7
- FzRKUVNxyF18S8oTusJu

+ Start collection

+ Add field

category: "xkmJfniFsCcow4LOxrvJ"

query: "what is odomos"

response: ""

time: 20 October 2023 at 00:17:18 UTC+5:30

type: "voice"

uid: "EXKRvL8P1OdbreUebR2JNTiqCq2"

Usernames:

Alapp

Cloud Firestore

Data

Rules

Indexes

Usage

Extensions

Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing

Configure App Check

Panel view

Query builder

usernames

Nvz8lB0kT9Qta..

More in Google Cloud

(default)

usernames

Nvz8lB0kT9QtaSznKdE2kKV7jox1

+ Start collection

apiKeys

history

queries

usernames

+ Add document

2rKYb9ah8LS1VodfCueUD4F9QuE3

EXKRvL8P10dbreIuEbr2JNTIqCq2

Nvz8lB0kT9QtaSznKdE2kKV7jox1

ODoaWd1nUHYc3cz7EQV1Pn9rZkF2

+ Start collection

+ Add field

Name: "Biju"