AIM:To setup Firebase in Flutter Project
Theory:
Setting up flutter Firebase in IOS app:
Firebase is a great backend solution for anyone that wants to use authentication, databases, cloud functions, ads, and countless other features within an app.
In this article, you will create a Firebase project for iOS and Android platforms using Flutter.
Prerequisites for Firebase setup:
1.A Google account to use Firebase.
2.Developing for iOS will require XCode.
3.To download and install Flutter.
4.To download and install Android Studio and Visual Studio Code.
5.It is recommended to install plugins for your code editor:
6.Flutter and Dart plugins installed for Android Studio.
7.Flutter extension installed for Visual Studio Code.

Code -

```
// File generated by FlutterFire CLI.
// ignore_for_file: lines_longer_than_80_chars,
avoid_classes_with_only_static_members
import 'package:firebase_core/firebase_core.dart' show FirebaseOptions;
import 'package:flutter/foundation.dart'
    show defaultTargetPlatform, kIsWeb, TargetPlatform;

/// Default [FirebaseOptions] for use with your Firebase apps.
///
/// Example:
/// ```dart
/// import 'firebase_options.dart';
/// // ...
/// await Firebase.initializeApp(
///   options: DefaultFirebaseOptions.currentPlatform,
/// );
/// ```
class DefaultFirebaseOptions {
  static FirebaseOptions get currentPlatform {
    if (kIsWeb) {
      return web;
    }
    switch (defaultTargetPlatform) {
      case TargetPlatform.android:
        return android;
```

```
      case TargetPlatform.iOS:
        return ios;
      case TargetPlatform.macOS:
        return macos;
      case TargetPlatform.windows:
        throw UnsupportedError(
          'DefaultFirebaseOptions have not been configured for windows - '
          'you can reconfigure this by running the FlutterFire CLI
again.',
        );
      case TargetPlatform.linux:
        throw UnsupportedError(
          'DefaultFirebaseOptions have not been configured for linux - '
          'you can reconfigure this by running the FlutterFire CLI
again.',
        );
      default:
        throw UnsupportedError(
          'DefaultFirebaseOptions are not supported for this platform.',
        );
    }
  }

  static const FirebaseOptions web = FirebaseOptions(
    apiKey: 'AIzaSyBU-aWG9s9UOl7n5MwsdUYUQE9ikRQrCSA',
    appId: '1:994530050638:web:f376bf4a92c4189fe7391f',
    messagingSenderId: '994530050638',
    projectId: 'chat-gpt-9ee62',
    authDomain: 'chat-gpt-9ee62.firebaseapp.com',
    storageBucket: 'chat-gpt-9ee62.appspot.com',
    measurementId: 'G-5PKNLL5NVB',
  );

  static const FirebaseOptions android = FirebaseOptions(
    apiKey: 'AIzaSyAGUrrjNm0lDLiFfeR41aJno8NA85IBSiI',
    appId: '1:994530050638:android:8aaa72a65ed10148e7391f',
    messagingSenderId: '994530050638',
    projectId: 'chat-gpt-9ee62',
    storageBucket: 'chat-gpt-9ee62.appspot.com',
  );
```

```
  static const FirebaseOptions ios = FirebaseOptions(
    apiKey: 'AIzaSyBFCz46f-SRjMB9PcEOd1piTKu1m9HKBVA',
    appId: '1:994530050638:ios:5c89c7487abcf9cde7391f',
    messagingSenderId: '994530050638',
    projectId: 'chat-gpt-9ee62',
    storageBucket: 'chat-gpt-9ee62.appspot.com',
    iosBundleId: 'com.example.chatGpt',
  );

  static const FirebaseOptions macos = FirebaseOptions(
    apiKey: 'AIzaSyBFCz46f-SRjMB9PcEOd1piTKu1m9HKBVA',
    appId: '1:994530050638:ios:65caaaca61da6d36e7391f',
    messagingSenderId: '994530050638',
    projectId: 'chat-gpt-9ee62',
    storageBucket: 'chat-gpt-9ee62.appspot.com',
    iosBundleId: 'com.example.chatGpt.RunnerTests',
  );
}
```

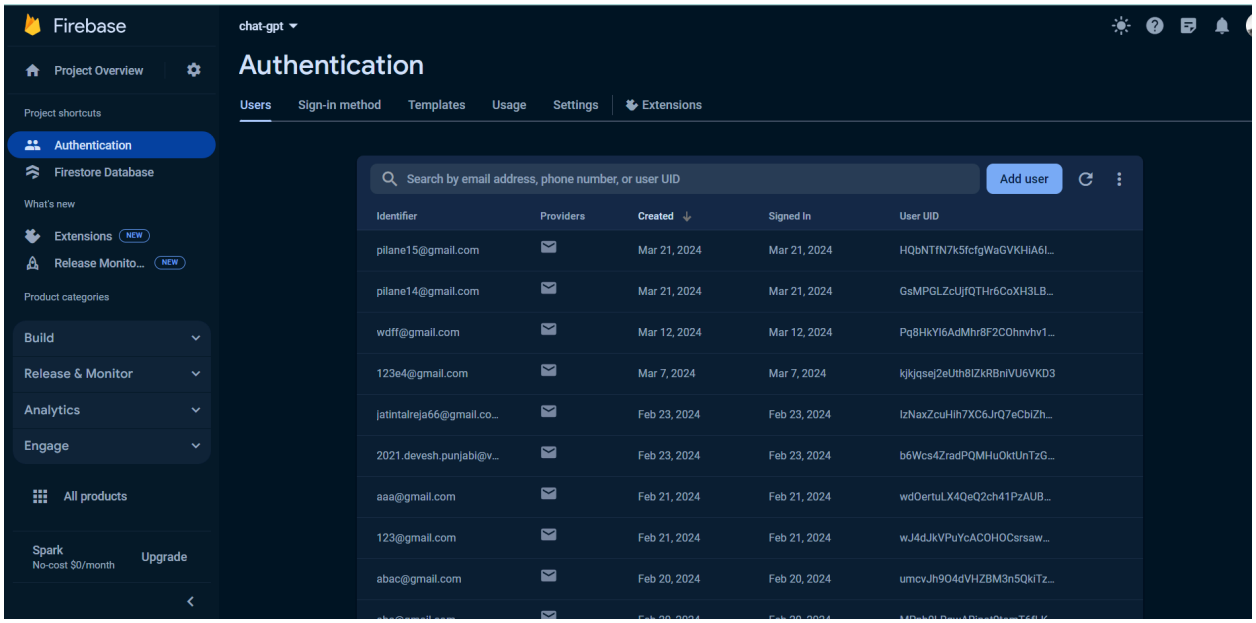
Pubspec.yaml

```
name: ChatGPT
description: "Chat GPT Clone"

publish_to: 'none' # Remove this line if you wish to publish to pub.dev

version: 1.0.0+1

environment:
  sdk: '>=3.2.6 <4.0.0'

dependencies:
  flutter:
    sdk: flutter


  # The following adds the Cupertino Icons font to your application.
  # Use with the CupertinoIcons class for iOS style icons.
  cupertino_icons: ^1.0.2
```

```
  dio: ^5.4.0
  mobile_chat_ui: ^1.0.0
  flutter_chat_ui: ^1.6.12
  file_picker: ^6.1.1
  open_filex: ^4.4.0
  bubble: ^1.2.1
  get_storage: ^2.1.1
  firebase_core: ^2.24.2
  firebase_auth: ^4.16.0
  intl: ^0.19.0
  google_fonts: ^6.1.0
  http: ^1.2.0
  uuid: ^4.3.3
  cached_network_image: ^3.3.1
  flutter_launcher_icons: ^0.13.1
  url_launcher: ^6.0.9
  flutter_svg:

dev_dependencies:
  flutter_test:
    sdk: flutter

  # The "flutter_lints" package below contains a set of recommended lints
to
  # encourage good coding practices. The lint set provided by the package
is
  # activated in the `analysis_options.yaml` file located at the root of
your
  # package. See that file for information about deactivating specific
lint
  # rules and activating additional ones.
  flutter_lints: ^2.0.0

# For information on the generic Dart part of this file, see the
# following page: https://dart.dev/tools/pub/pubspec
flutter_icons:
  android: true
  ios: true
  image_path: "assets/icons/open-ai.png"
```

```
# The following section is specific to Flutter packages.
flutter:

  # The following line ensures that the Material Icons font is
  # included with your application, so that you can use the icons in
  # the material Icons class.
  uses-material-design: true

  # To add assets to your application, add an assets section, like this:
  assets:
    - assets/icons/
    - assets/images/bg2.png
    - assets/images/download.jpeg

  # An image asset can refer to one or more resolution-specific
"variants", see
  # https://flutter.dev/assets-and-images/#resolution-aware

  # For details regarding adding assets from package dependencies, see
  # https://flutter.dev/assets-and-images/#from-packages

  # To add custom fonts to your application, add a fonts section here,
  # in this "flutter" section. Each entry in this list should have a
  # "family" key with the font family name, and a "fonts" key with a
  # list giving the asset and other descriptors for the font. For
  # example:
  # fonts:
  #   - family: Schyler
  #     fonts:
  #       - asset: fonts/Schyler-Regular.ttf
  #       - asset: fonts/Schyler-Italic.ttf
  #         style: italic
  #   - family: Trajan Pro
  #     fonts:
  #       - asset: fonts/TrajanPro.ttf
  #       - asset: fonts/TrajanPro_Bold.ttf
  #         weight: 700
  #
  # For details regarding fonts from package dependencies,
  # see https://flutter.dev/custom-fonts/#from-packages
```

Output -


Firebase
chat-gpt
Project Overview
Project shortcuts
Authentication
Firestore Database
What's new
Extensions NEW
Release Monito... NEW
Product categories
Build
Release & Monitor
Analytics
Engage
All products
Spark
No-cost $0/month
Upgrade
Authentication
Users
Sign-in method
Templates
Usage
Settings
Extensions
Search by email address, phone number, or user UID
Add user
Identifier
Providers
Created
Signed In
User UID
pilane15@gmail.com
Mar 21, 2024
Mar 21, 2024
HQbNTfN7k5fcfgWaGVKHiA6l...
pilane14@gmail.com
Mar 21, 2024
Mar 21, 2024
GsMPGLZcUjfQTHr6CoXH3LB...
wdff@gmail.com
Mar 12, 2024
Mar 12, 2024
Pq8HkYl6AdMhr8F2COhnvhv1...
123e4@gmail.com
Mar 7, 2024
Mar 7, 2024
kjkjqsej2eUth8lZkRBniVU6VKD3
jatintalreja66@gmail.co...
Feb 23, 2024
Feb 23, 2024
lzNaxZcuHlh7XC6JrQ7eCbiZh...
2021.devesh.punjabi@v...
Feb 23, 2024
Feb 23, 2024
b6Wcs4ZradPQMHuOktUnTzG...
aaa@gmail.com
Feb 21, 2024
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wdOertuLX4QeQ2ch41PzAUB...
123@gmail.com
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wJ4dJkVPuYcACOHOCsrsaw...
abac@gmail.com
Feb 20, 2024
Feb 20, 2024
umcvJh9O4dVHZBM3n5QkiTz...