

## Experiment No: 6

Name:- Vishal Gori

Roll No.: 18

Batch: A

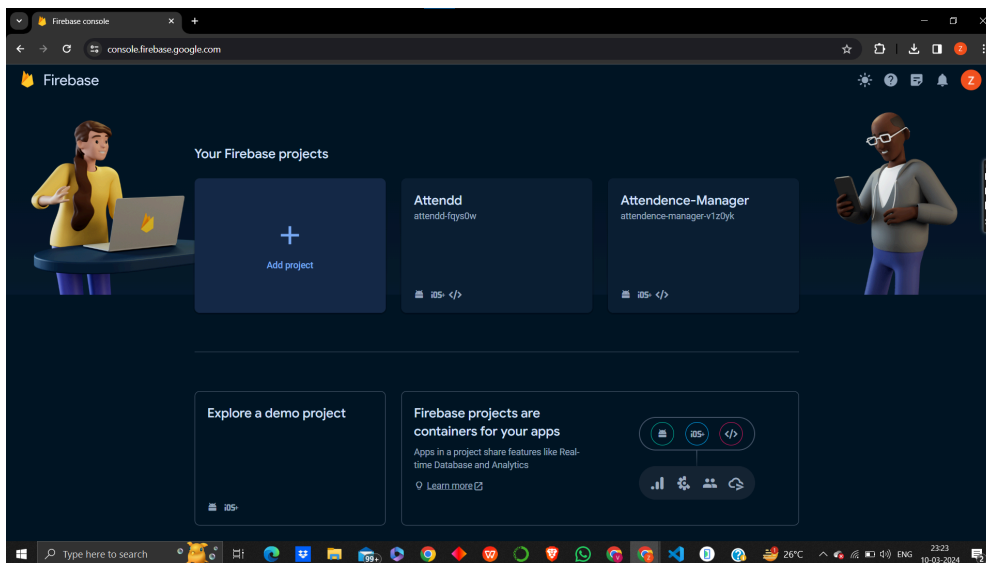
Division:- D15B

AIM:- To Set Up Firebase with Flutter for iOS and Android Apps

### SetUp Steps:-

Goto firebase website <https://console.firebase.google.com/>

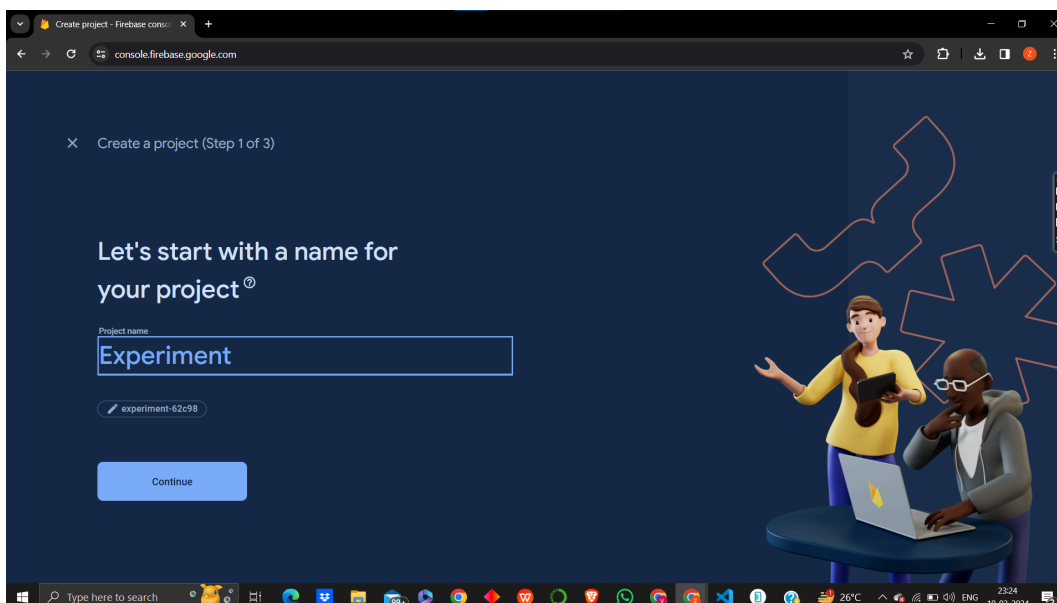
Click on Add project

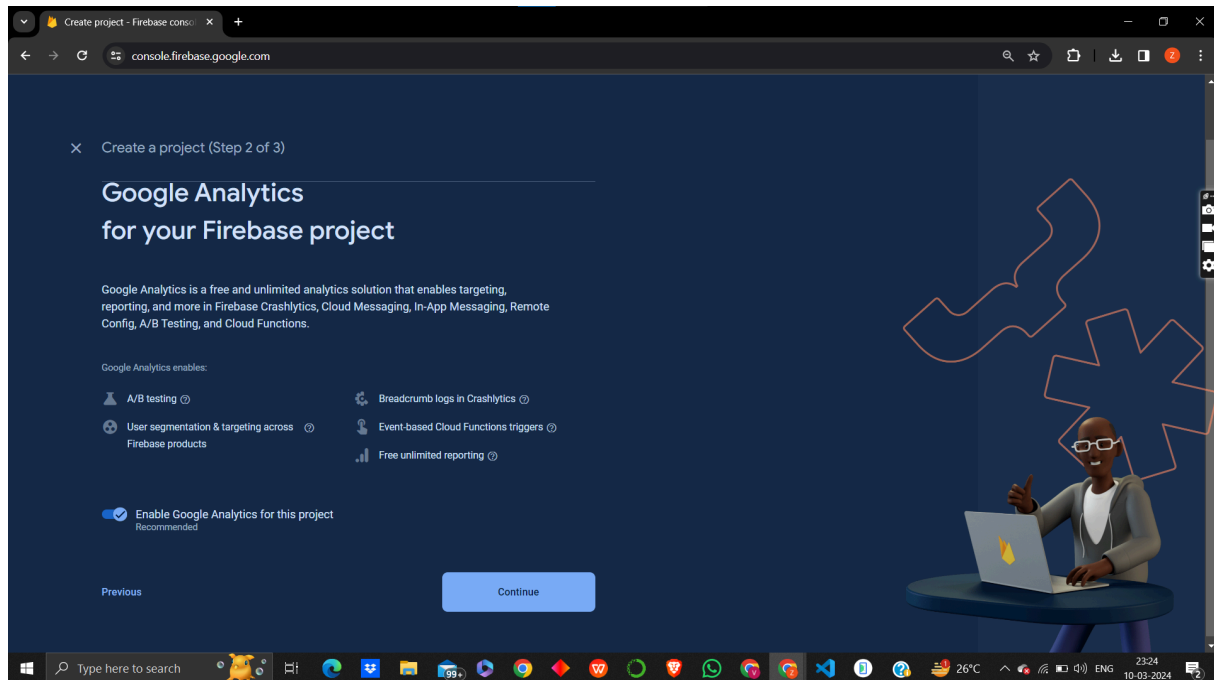


Give a name to the project

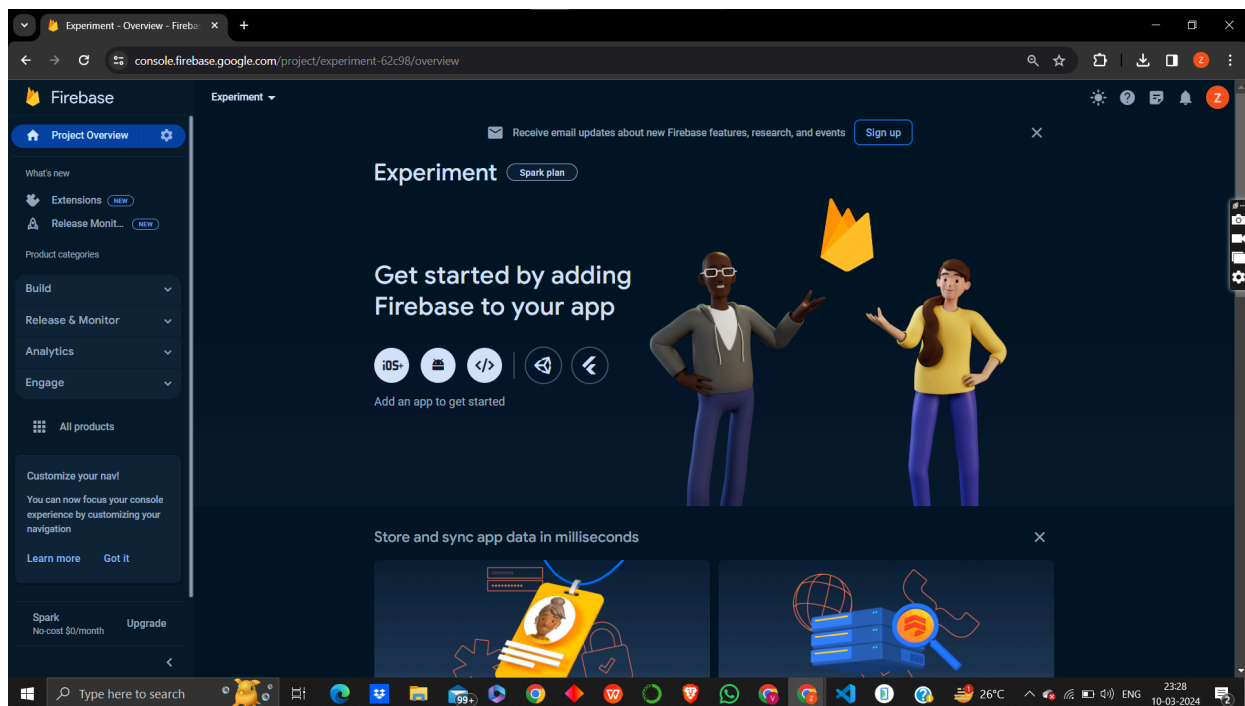
- My project name is **Experiment**

Click on Continue





- Once the project is ready we get navigated to this page



## Now Goto your flutter project on VS Code or Android Studio

### Step 1: Install the required command line tools

Now we goto our Flutter project where we have written some basic code  
We will setup firebase for our app using CLI

#### 1. To install CLI

To use npm (the Node Package Manager) to install the Firebase CLI, follow these steps:

1. Install [Node.js](#) using [nvm-windows](#) (the Node Version Manager). Installing Node.js automatically installs the npm command tools.

**Note:** The Firebase CLI requires **Node.js v18.0.0 or later**. Some Firebase features might require specific versions of Node.js, so check each Firebase product's getting started page for any specific Node.js requirements.

2. Install the Firebase CLI via npm by running the following command:

3. `npm install -g firebase-tools`

4. This command enables the globally available `firebase` command.

**Note:** If the `npm install -g firebase-tools` command fails, you might need to [change npm permissions](#).

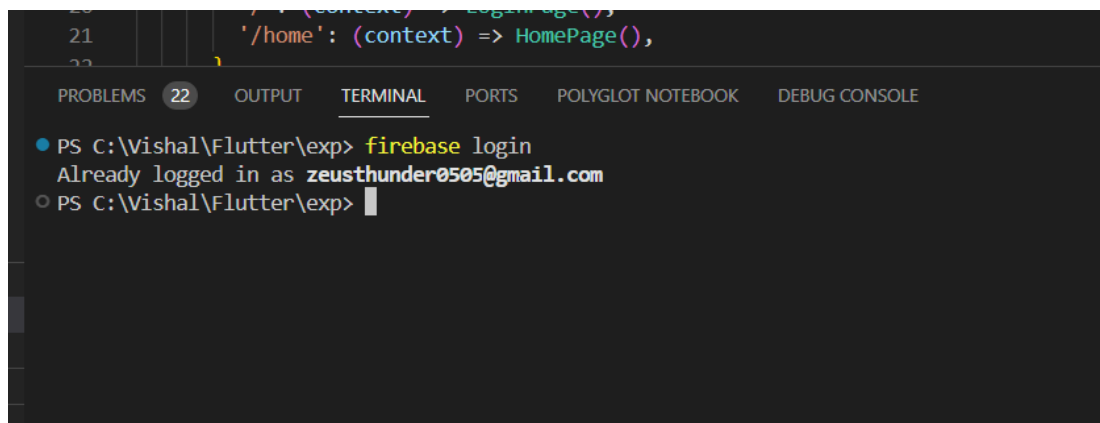
5. Continue to [log in and test the CLI](#).

#### 2. Log into Firebase using your Google account by running the following command:

First check weather firebase is logged in using the command

***firebase login***

It will show the logged in firebase account



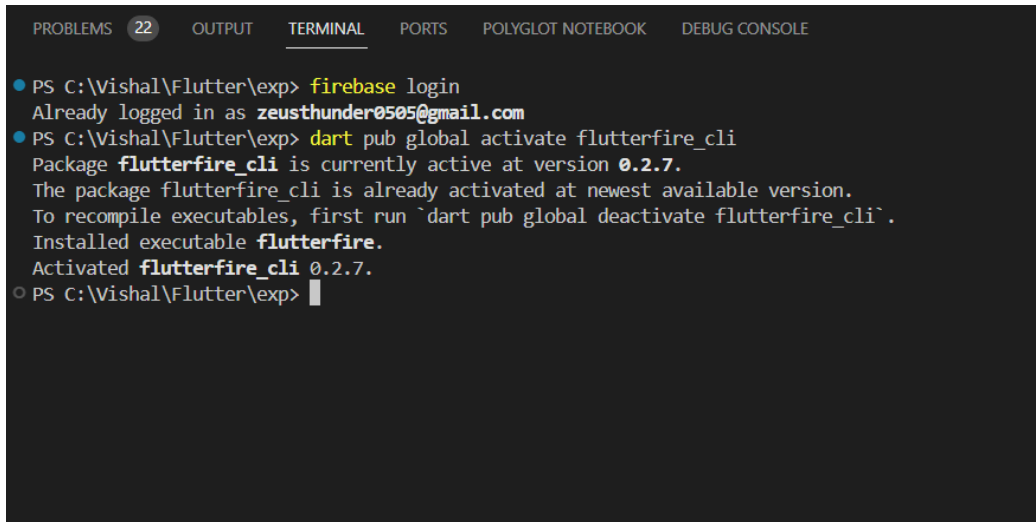
```
21  ... (context) ... loginPage(),
22  ...
23  ...

PROBLEMS 22 OUTPUT TERMINAL PORTS POLYGLOT NOTEBOOK DEBUG CONSOLE

• PS C:\Vishal\Flutter\exp> firebase login
  Already logged in as zeusthunder0505@gmail.com
○ PS C:\Vishal\Flutter\exp> 
```

3. Install the FlutterFire CLI by running the following command from any directory:

***dart pub global activate flutterfire\_cli***



```
PROBLEMS 22 OUTPUT TERMINAL PORTS POLYGLOT NOTEBOOK DEBUG CONSOLE

• PS C:\Vishal\Flutter\exp> firebase login
  Already logged in as zeusthunder0505@gmail.com
• PS C:\Vishal\Flutter\exp> dart pub global activate flutterfire_cli
  Package flutterfire_cli is currently active at version 0.2.7.
  The package flutterfire_cli is already activated at newest available version.
  To recompile executables, first run `dart pub global deactivate flutterfire_cli`.
  Installed executable flutterfire.
  Activated flutterfire_cli 0.2.7.
○ PS C:\Vishal\Flutter\exp> 
```

## Step 2: Configure your apps to use Firebase

Use the FlutterFire CLI to configure your Flutter apps to connect to Firebase.

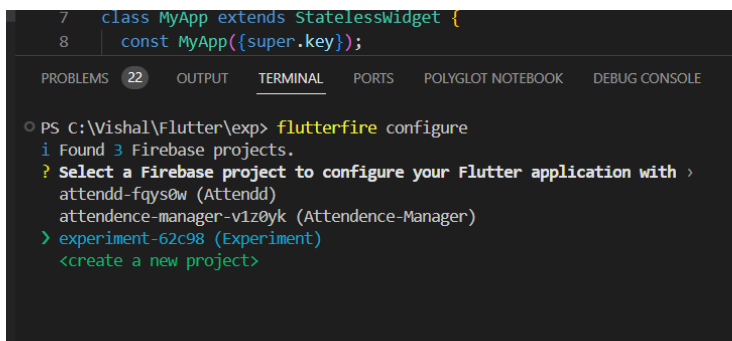
From your Flutter project directory, run the following command to start the app configuration workflow:

Use command

***flutterfire configure***

To configure your flutter app with firebase project

**Select your created project and press enter**



```
7  class MyApp extends StatelessWidget {
8  |   const MyApp({super.key});
9  |
10 |   // This widget represents the root of your application.
11 |
12 |   @override
13 |   Widget build(BuildContext context) {
14 |     // TODO: Implement build method here.
15 |   }
16 | }
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```

Select for which platforms do you want to setup your project

- android
- ios
- macos
- web

Use space key to select and deselect and press enter

```
8  const MyApp({super.key});

PROBLEMS 22 OUTPUT TERMINAL PORTS POLYGLOT NOTEBOOK DEBUG CONSOLE

PS C:\Wishal\Flutter\exp> flutterfire configure
i Found 3 Firebase projects.
✓ Select a Firebase project to configure your Flutter application with · experiment-62c98 (Experiment)
? Which platforms should your configuration support (use arrow keys & space to select)? >
✓ android
✓ ios
  macos
  web
```

Now your project is ready and configured with firebase

```
7  class MyApp extends StatelessWidget {
8  const MyApp({super.key});

PROBLEMS 28 OUTPUT TERMINAL PORTS POLYGLOT NOTEBOOK DEBUG CONSOLE

PS C:\Wishal\Flutter\exp> flutterfire configure
i Found 3 Firebase projects.
✓ Select a Firebase project to configure your Flutter application with · experiment-62c98 (Experiment)
✓ Which platforms should your configuration support (use arrow keys & space to select)? · android, ios
i Firebase android app com.example.exp is not registered on Firebase project experiment-62c98.
i Registered a new Firebase android app on Firebase project experiment-62c98.
i Firebase ios app com.example.exp is not registered on Firebase project experiment-62c98.
i Registered a new Firebase ios app on Firebase project experiment-62c98.

Firebase configuration file lib\firebase_options.dart generated successfully with the following Firebase apps:

Platform  Firebase App Id
android   1:1032825057990:android:07bf54570e4e8718065dc7
ios       1:1032825057990:ios:ff729a66a007dc71065dc7

Learn more about using this file and next steps from the documentation:
> https://firebase.google.com/docs/flutter/setup
PS C:\Wishal\Flutter\exp>
```

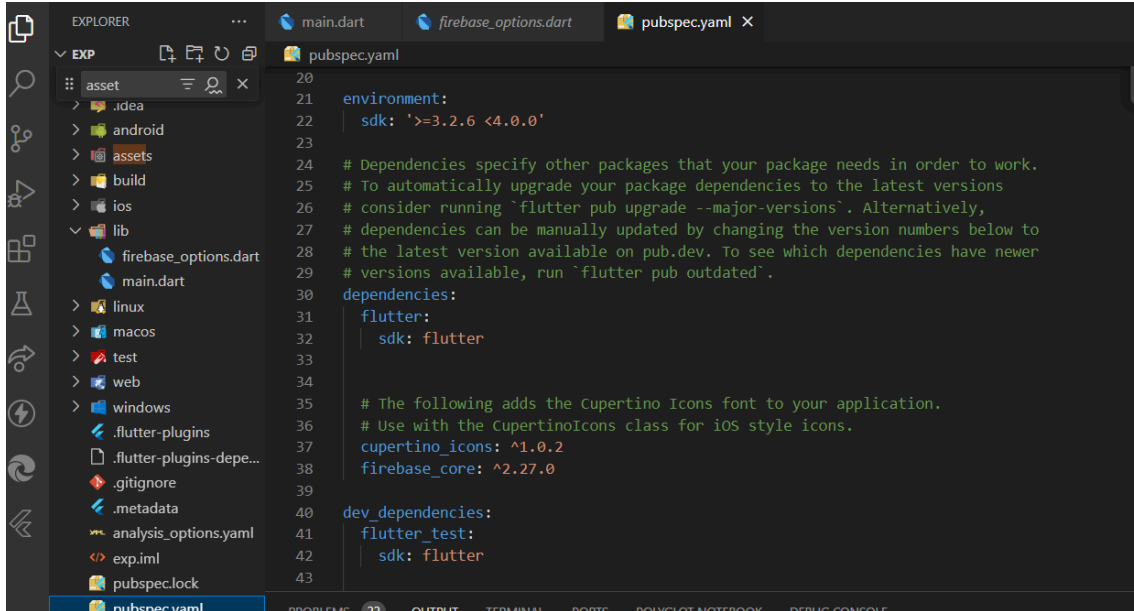
### Step 3: Initialize Firebase in your app

1. From your Flutter project directory, run the following command to install the core plugin:

*flutter pub add firebase\_core*

Goto pubspec.yaml

Check Firebase\_core Added into the dependencies



2. From your Flutter project directory, run the following command to ensure that your Flutter app's Firebase configuration is up-to-date:

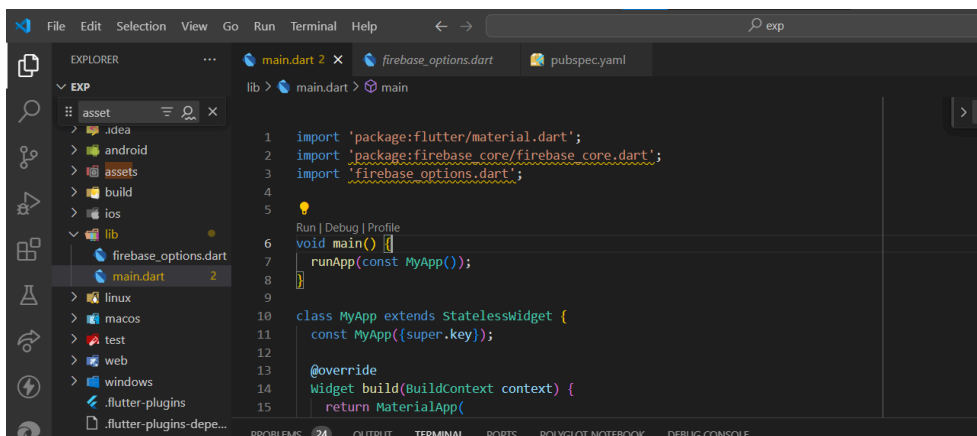
*flutterfire configure*

3. In your `lib/main.dart` file, import the Firebase core plugin and the configuration file you generated earlier:

Code:

```
import 'package:firebase_core/firebase_core.dart';
```

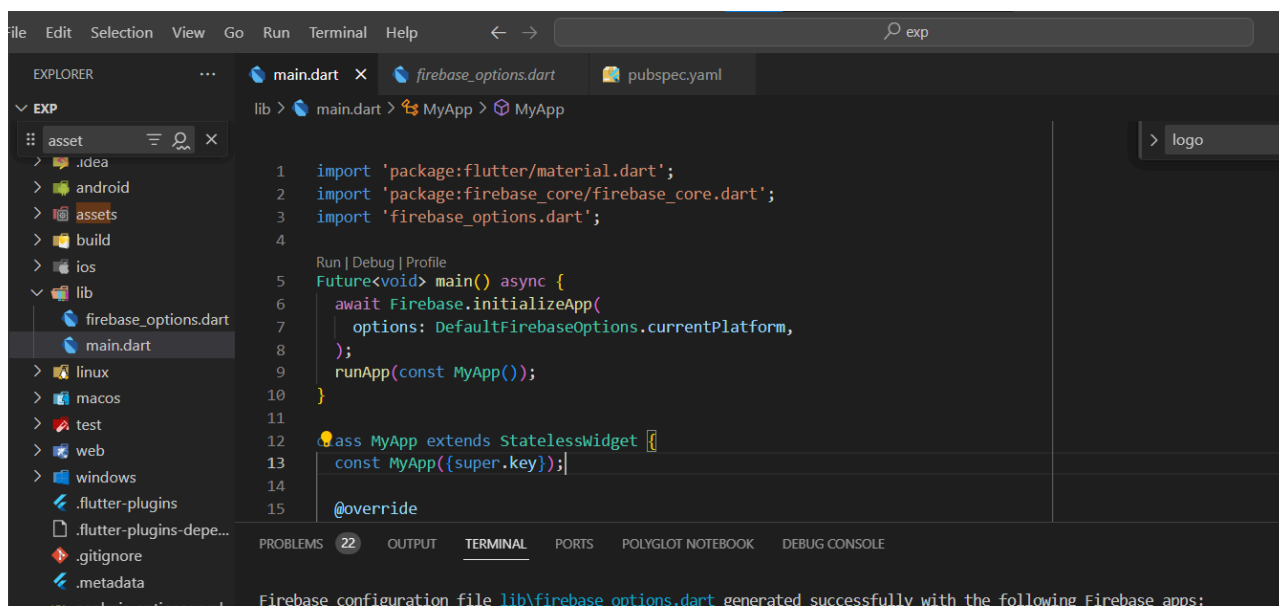
```
import 'firebase_options.dart';
```



4. Also in your `lib/main.dart` file, initialize Firebase using the `DefaultFirebaseOptions` object exported by the configuration file:

Code:

```
await Firebase.initializeApp(  
  options: DefaultFirebaseOptions.currentPlatform,  
);
```



5. Rebuild your Flutter application:

*flutter run*

## Step 4: Add Firebase plugins

You access Firebase in your Flutter app through the various [Firebase Flutter plugins](#), one for each Firebase product (for example: Cloud Firestore, Authentication, Analytics, etc.).

Since Flutter is a multi-platform framework, each Firebase plugin is applicable for Apple, Android, and web platforms. So, if you add any Firebase plugin to your Flutter app, it will be used by the Apple, Android, and web versions of your app.

Here's how to add a Firebase Flutter plugin:

1. From your Flutter project directory, run the following command:

***flutter pub add PLUGIN\_NAME***

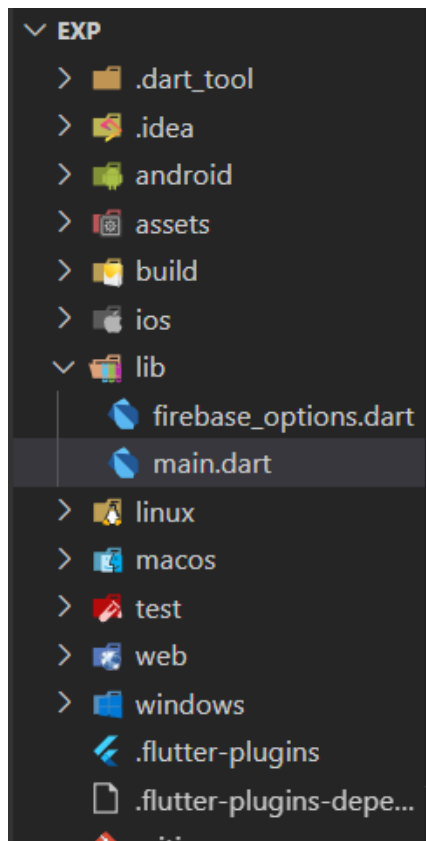
2. From your Flutter project directory, run the following command:

***flutterfire configure***

3. Running this command ensures that your Flutter app's Firebase configuration is up-to-date and, for Crashlytics and Performance Monitoring on Android, adds the required Gradle plugins to your app.
4. Once complete, rebuild your Flutter project:

***flutter run***

You're all set! Your Flutter apps are registered and configured to use Firebase.



After the setup a **firebse\_options.dart** file is create



This file has all the necessary configuration keys for various platforms  
In our case for android and ios

**Conclusion:-** By following all the above steps we configured our flutter app with the firebase to use all its functionalities , the method we used was firebase CLI which made it easy to set up by just using some commands.