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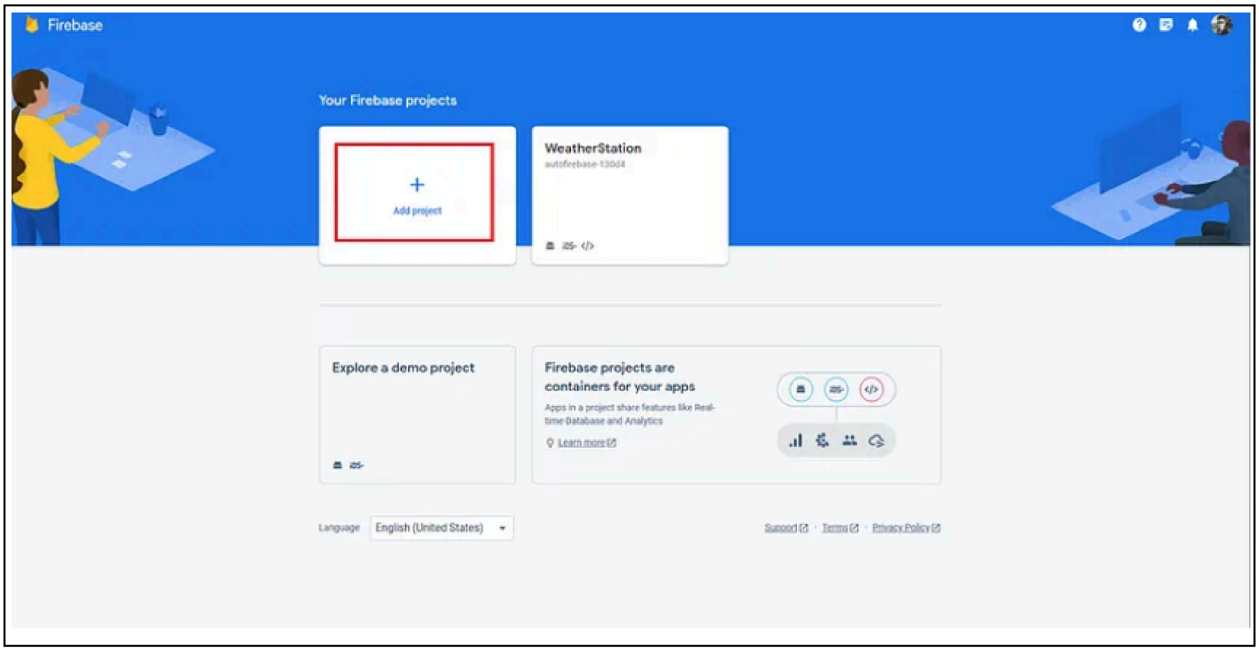
Experiment - 6

Aim : How To Set Up Firebase with Flutter for iOS and Android Apps.

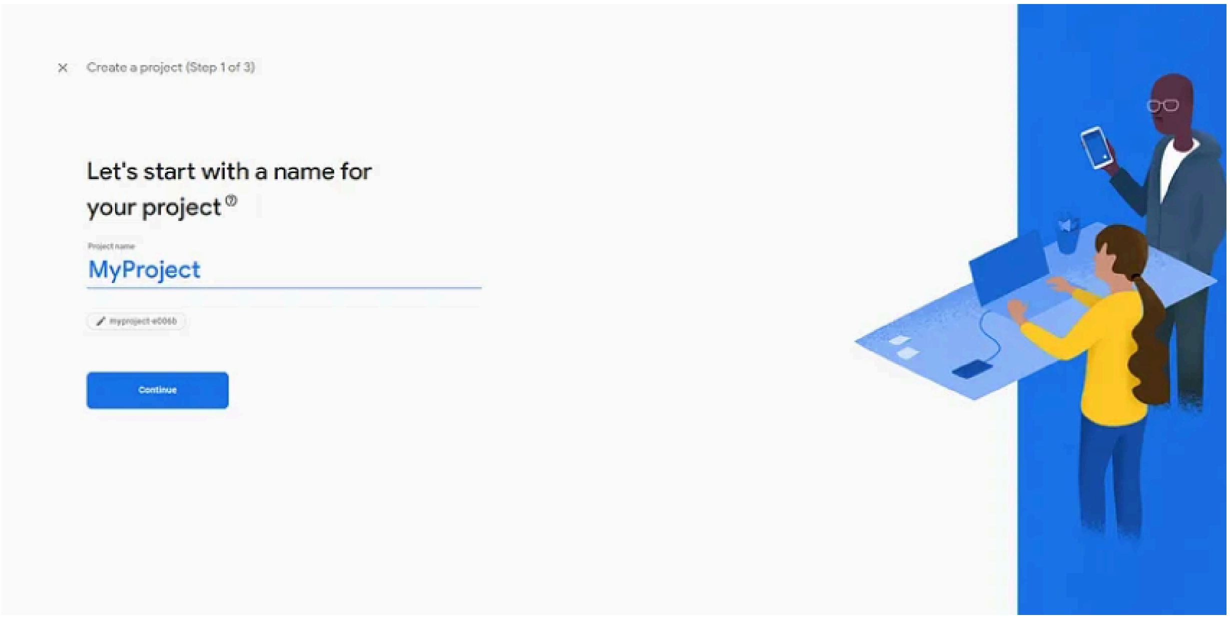
Theory :

First and foremost, you need to setup a Firebase project. For that, you need to go to *https://console.firebase.google*.com and tap on Add project.



Firebase projects are containers for your apps

Apps in a project share features like Real-time Database and Analytics



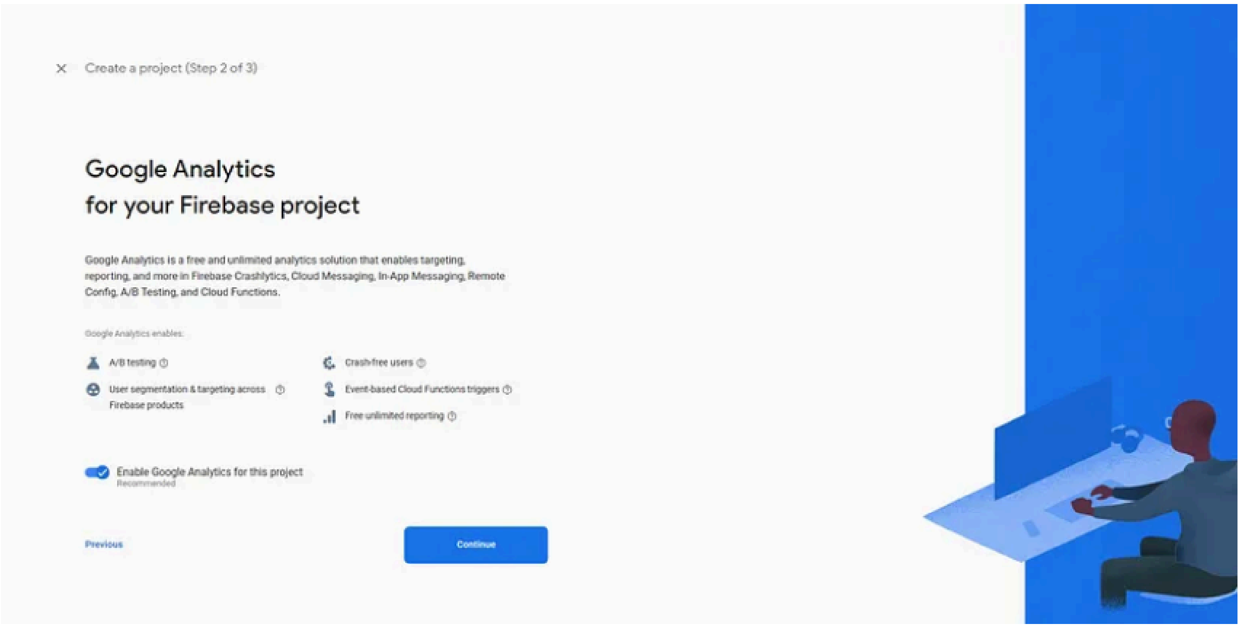
Create a project (Step 1 of 3)

Let's start with a name for your project

Project name: MyProject

myproject-e006b

Name your Project



Create a project (Step 2 of 3)

Google Analytics for your Firebase project

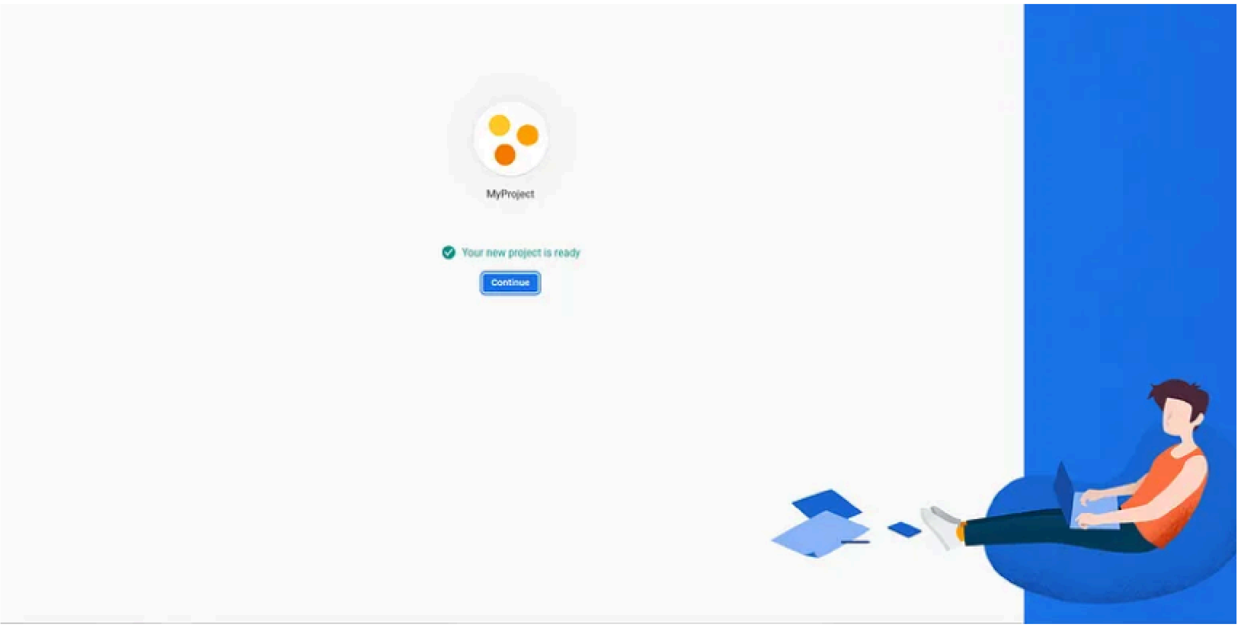
Google Analytics is a free and unlimited analytics solution that enables targeting, reporting, and more in Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B Testing, and Cloud Functions.

Google Analytics enables:

- A/B testing
- User segmentation & targeting across Firebase products
- Crash-free users
- Event-based Cloud Functions triggers
- Free unlimited reporting

☑ Enable Google Analytics for this project
Recommended

You can enable or disable Google Analytics as per requirements. But initially you can disable it.



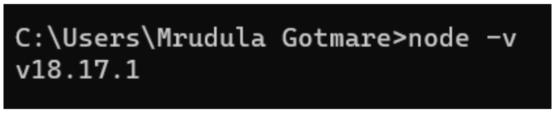
Voila, your Firebase project is ready. You will be presented with the following screen.

As we have successfully created a Firebase project we can continue with installing Firebase CLI. Firebase CLI differs from OS to OS.

To Install Firebase CLI in Windows,

1. standalone binary for CLI (for new developers, who are unfamiliar with Node.js).

2. npm (Node Package Manager). [Head over the download page and download the LTS installer and execute it. To check if installation is successful or not, you can run: node -v and npm -v command in CMD prompt].

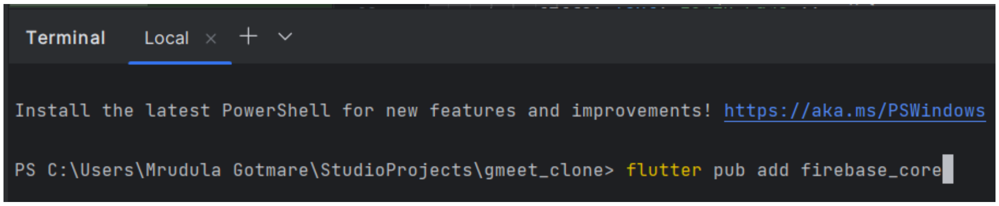


```
C:\Users\Mrudula Gotmare>node -v
v18.17.1
```

3. After installing npm, you need to install Firebase CLI via npm using the following commands:
    a. **npm install -g firebase-tools**
    b. **dart pub global activate flutterfire_cli**

4. Use the FlutterFire CLI to configure your Flutter apps to connect to Firebase.
    a. **flutterfire configure**

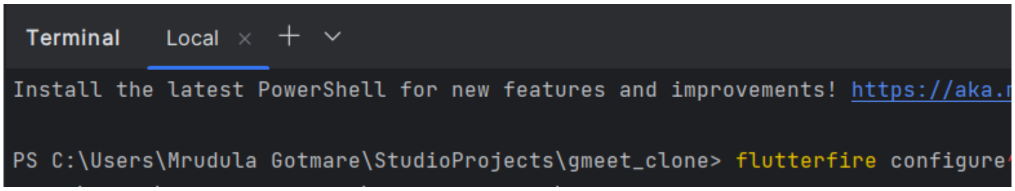
5. From your Flutter project directory, run the following command to install the core plugin:



```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Mrudula Gotmare\StudioProjects\gmeet_clone> flutter pub add firebase_core
```

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



```
Install the latest PowerShell for new features and improvements! https://aka.m

PS C:\Users\Mrudula Gotmare\StudioProjects\gmeet_clone> flutterfire configure
```

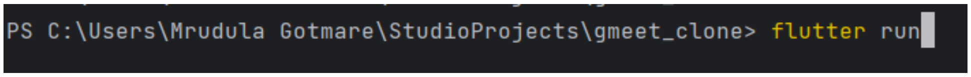
7. In your lib/main.dart file, import the Firebase core plugin and the configuration file you generated earlier:

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

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

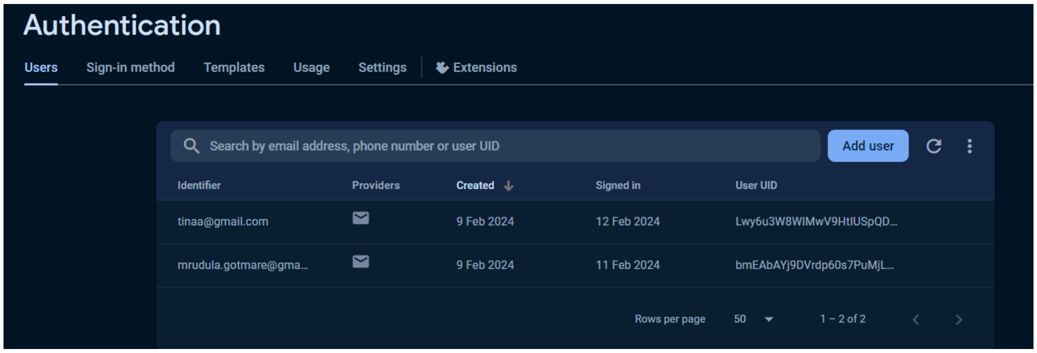
```
await Firebase.initializeApp(
  options: DefaultFirebaseOptions.currentPlatform,
);
```

9. Rebuild your Flutter application:



```
PS C:\Users\Mrudula Gotmare\StudioProjects\gmeet_clone> flutter run
```

10. So, the firebase is successfully connected to the project.



Identifier	Providers	Created	Signed in	User UID
tinaa@gmail.com	✉	9 Feb 2024	12 Feb 2024	Lwy6u3W8WIMwV9HtIUSpQD...
mrudula.gotmare@gma...	✉	9 Feb 2024	11 Feb 2024	bmEAbAYj9DVrdp60s7PuMjL...

Conclusion : In this article, you learned how to set up and ready our Flutter applications to be used with Firebase. Flutter has official support for Firebase with the FlutterFire set of libraries.