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EXP 6

Aim: To connect firebase database with flutter ui

Theory:

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

To complete this tutorial, you will need:

- A Google account to use Firebase.
- Developing for iOS will require XCode.
- To download and install Flutter.
- To download and install Android Studio and Visual Studio Code.
- It is recommended to install plugins for your code editor:
 - Flutter and Dart plugins installed for Android Studio.
 - o Flutter extension installed for Visual Studio Code.

This tutorial was verified with Flutter v2.0.6, Android SDK v31.0.2, and Android Studio v4.1.

Creating a New Flutter Project

This tutorial will require the creation of an example Flutter app.

Once you have your environment set up for Flutter, you can run the following to create a new application:

flutter create flutterfirebaseexample

1.

Copy

Navigate to the new project directory:

```
cd flutterfirebaseexample
1.
```

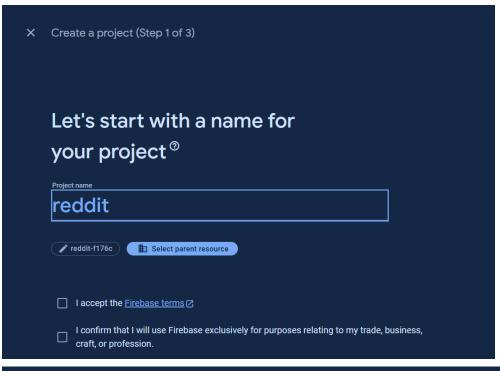
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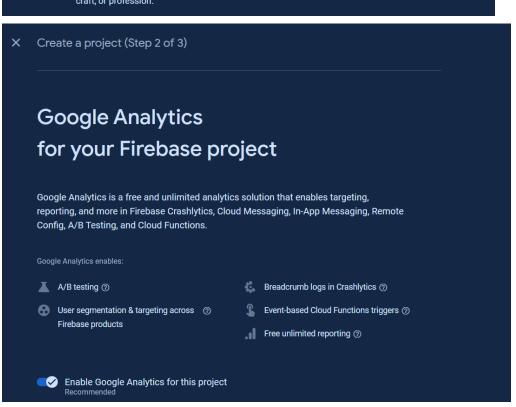
Using flutter create will produce a demo application that will display the number of times a button is clicked.

Now that we've got a Flutter project up and running, we can add Firebase.

Creating a New Firebase Project

First, log in with your Google account to manage your Firebase projects. From within the Firebase dashboard, select the Create new project button and give it a name:





imes Add Firebase to your Flutter app

1 Prepare your workspace

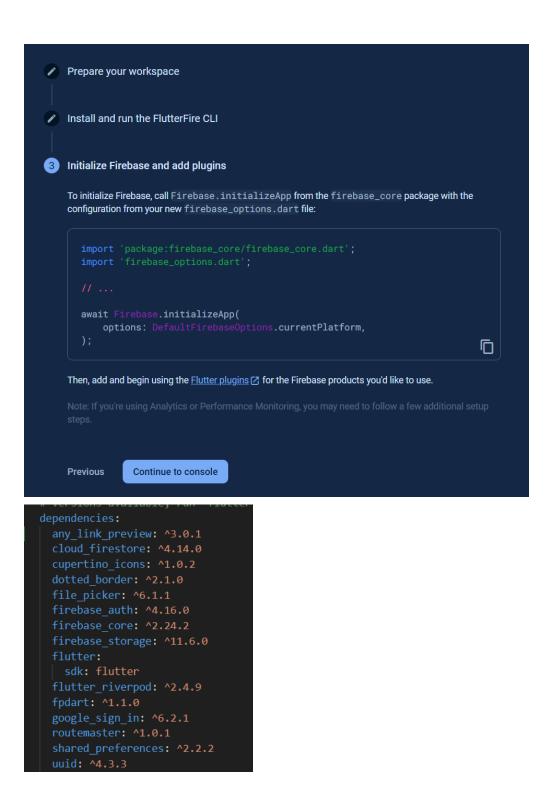
The easiest way to get you started is to use the FlutterFire CLI.

Before you continue, make sure to:

- Install the Firebase CLI 🖸 and log in (run firebase login)
- Install the $\underline{\mathsf{Flutter}\,\mathsf{SDK}\, \square}$
- Create a Flutter project (run flutter create)

Next

- 2 Install and run the FlutterFire CLI
- 3 Initialize Firebase and add plugins



Be sure to move this file within Xcode to create the proper file references.

There are additional steps for installing the Firebase SDK and adding initialization code, but they are not necessary for this tutorial.

That's it!

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.