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Experiment 06 Aim: To Connect Flutter UI with fireBase database

Theory:

Firebase offers a backend-as-a-service including authentication and Firestore database. Integration allows storing, updating, and retrieving user data in real-time.

- Firebase Auth is used for sign-in.
- Firestore is used to store user data (users collection) and societies.

References:

https://youtu.be/ErP_xomHKTw

https://www.digitalocean.com/community/tutorials/flutter-firebase-setup

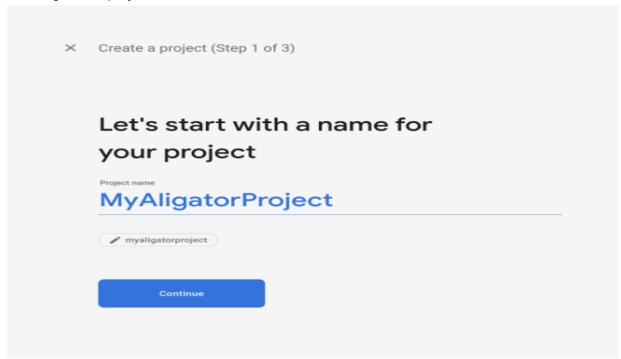
Prerequisites

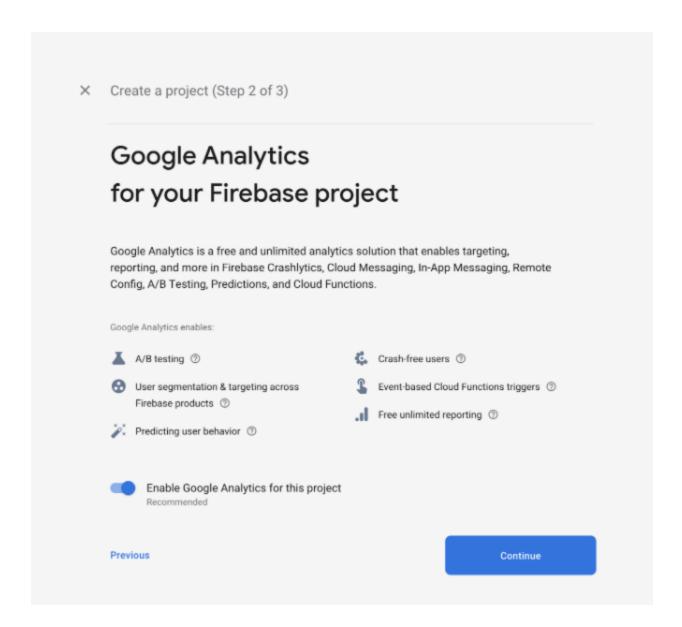
To complete this tutorial, you will need:

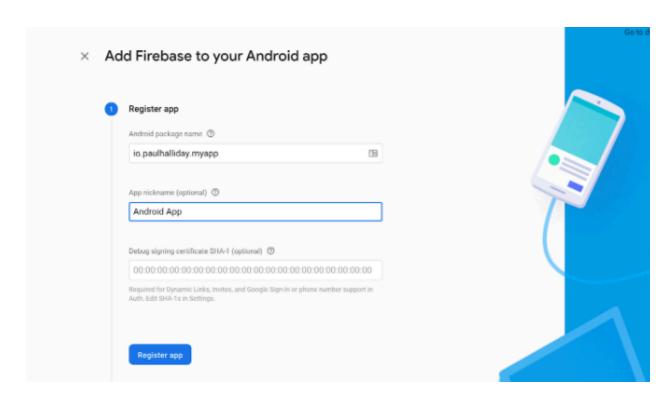
- A Google account to use Firebase.
- Developing for iOS will require XCode.
- To download and install Flutter.
- To download and install <u>Android Studio</u> and <u>Visual Studio Code</u>.
- It is recommended to install plugins for your code editor:
 - o Flutter and Dart plugins installed for Android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





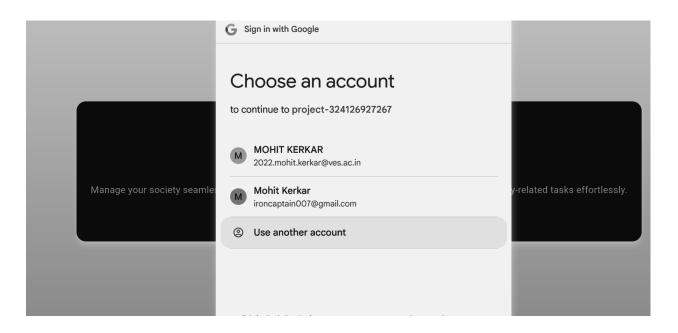


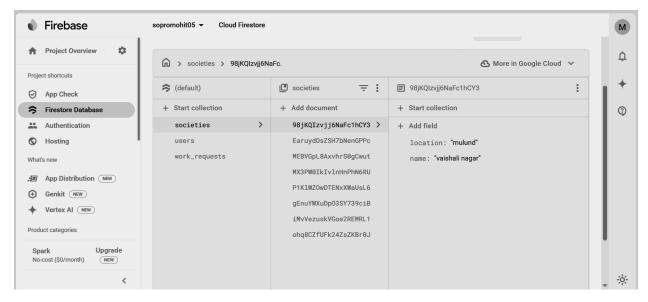
The most important thing here is to match up the Android package name that you choose here with the one inside of our application.

The structure consists of at least two segments. A common pattern is to use a domain name, a company name, and the application name:

com.example.flutterfirebaseexample

Once you've decided on a name, open android/app/build.gradle in your code editor and update the applicationId to match the Android package name:





Conclusion:

Firebase integration made user registration, profile management, and data sync real-time and secure.