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**Class: D15B      Roll no.: 17**

## **MAD-PWD Experiment - 6**

**AIM:** To integrate the firebase database with our flutter app.

### **THEORY:**

Flutter with Firebase

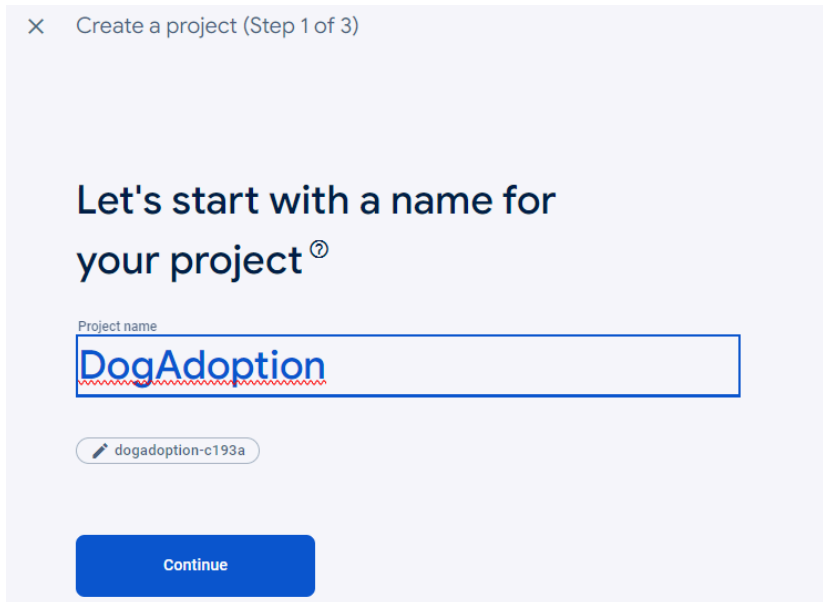
Google's Flutter SDK can be used to develop apps that give native UI experience for both Android and iOS platforms. To write apps using Flutter, you have to use Dart programming language.

Firebase Realtime Database is a cloud-hosted database with data stored as JSON. It provides a backend database with secure access to build rich, collaborative applications directly from the client-side. Data is persisted locally on the device while offline and real time events continue to fire giving responsive experience to the end user. When the device regains connection to the internet, the realtime backend database is automatically synchronized with local data changes that occurred while the client was offline while auto-merging any conflicts.

Refer: <https://firebase.flutter.dev/docs/overview/>

#### **1. Create Firebase Project**

Create a firebase project in firebase console. <https://console.firebase.google.com>



X Create a project (Step 1 of 3)

Let's start with a name for your project <sup>?</sup>

Project name

DogAdoption


dogadoption-c193a


Continue


## ✕ Create a project (Step 2 of 3)


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 [?](#)

 Breadcrumb logs in Crashlytics [?](#)

 Event-based Cloud Functions triggers [?](#)

 Free unlimited reporting [?](#)

☒ **Enable Google Analytics for this project**  
Recommended

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## ✕ Create a project (Step 3 of 3)

### Configure Google Analytics

Analytics location [?](#)

India

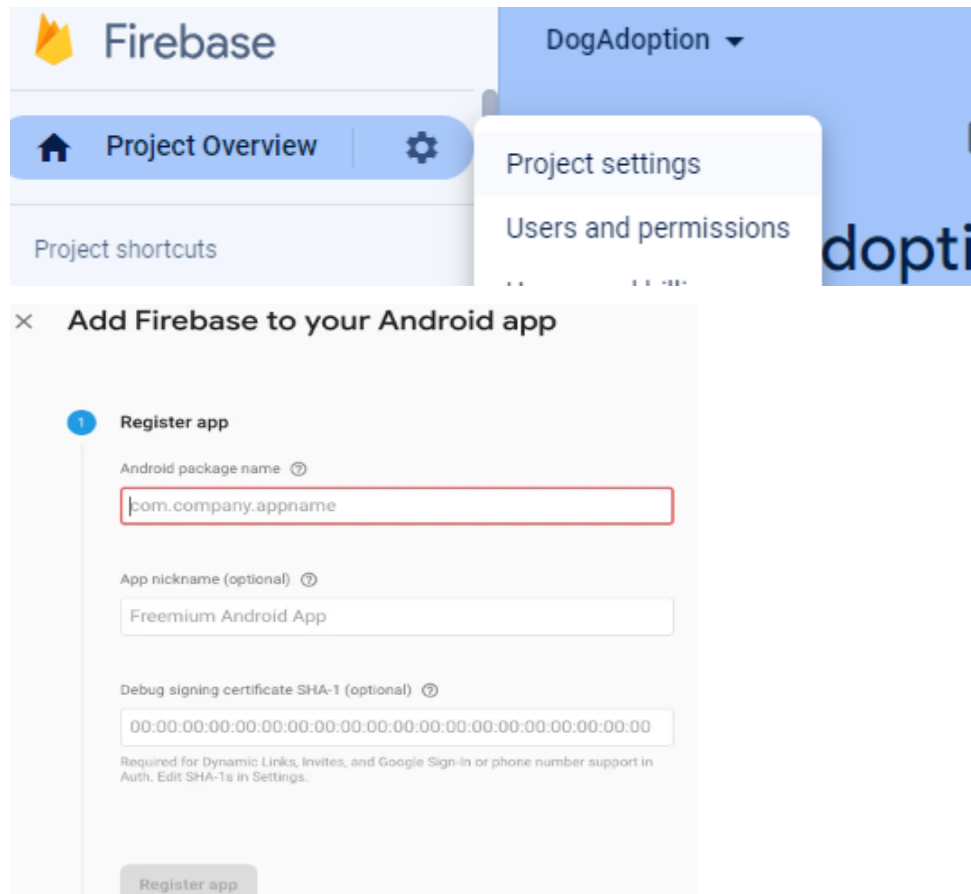
Google Analytics is a business tool. Use it exclusively for purposes related to your trade, business, craft, or profession.

Data sharing settings and Google Analytics terms

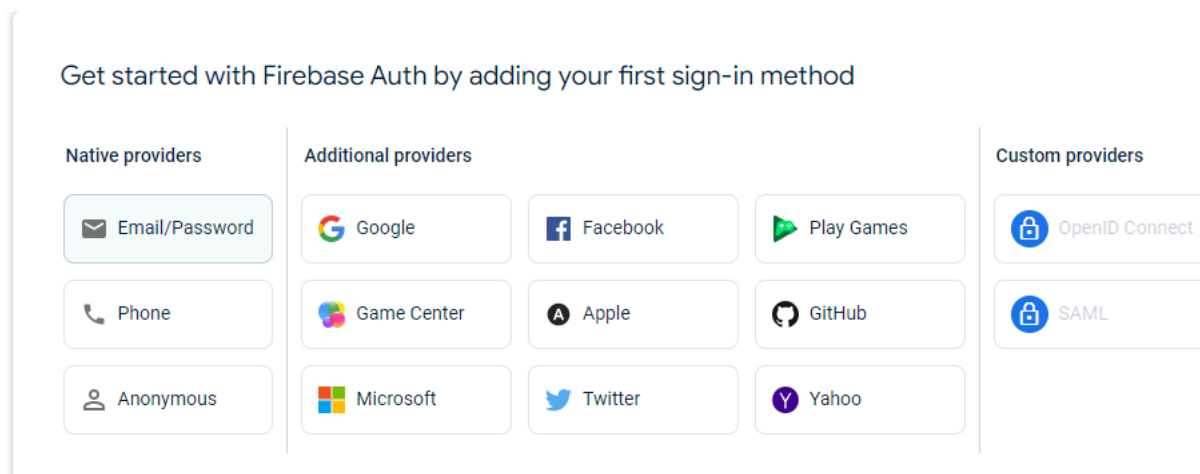
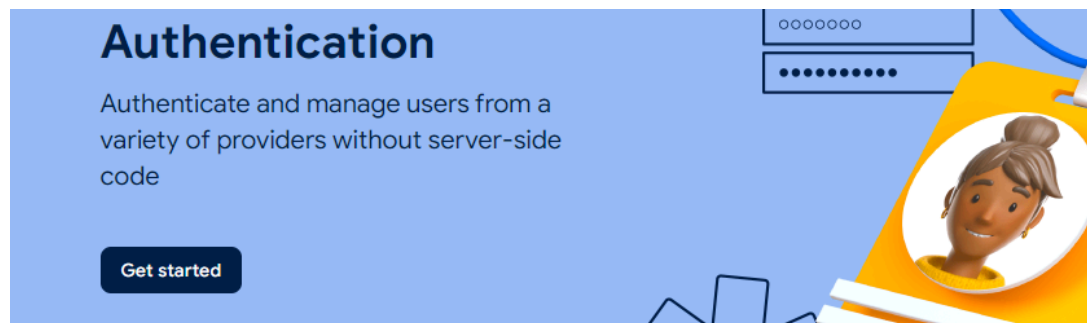
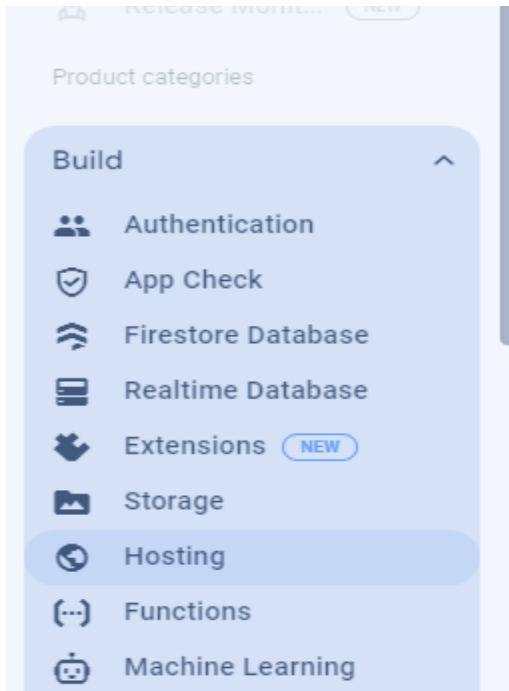
☒ Use the default settings for sharing Google Analytics data. [Learn more](#) [?](#)

- ☒ Share your Analytics data with Google to improve Google Products and Services
- ☒ Share your Analytics data with Google to enable Benchmarking
- ☒ Share your Analytics data with Google to enable Technical Support
- ☒ Share your Analytics data with Google Account Specialists

2. Go to project settings and register your app.



3. Now go to build and get started with all the things you need for your app. For eg: Authentication , firestore database etc.



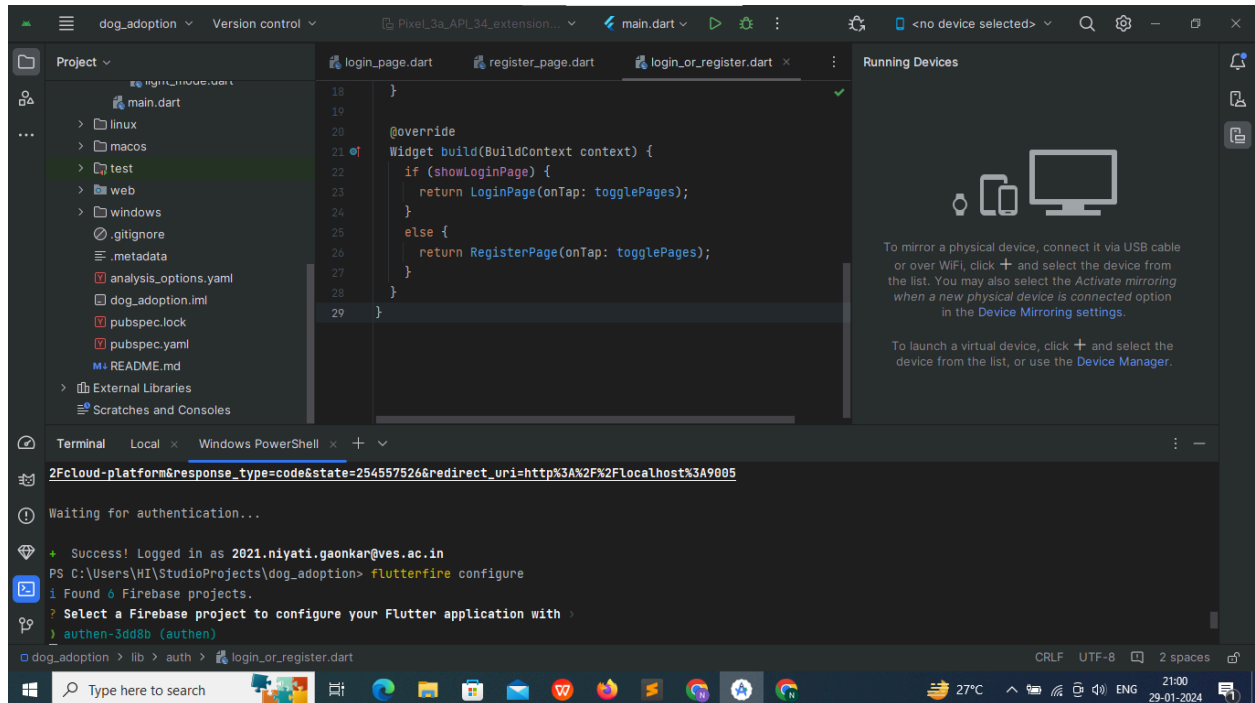
## CODE:

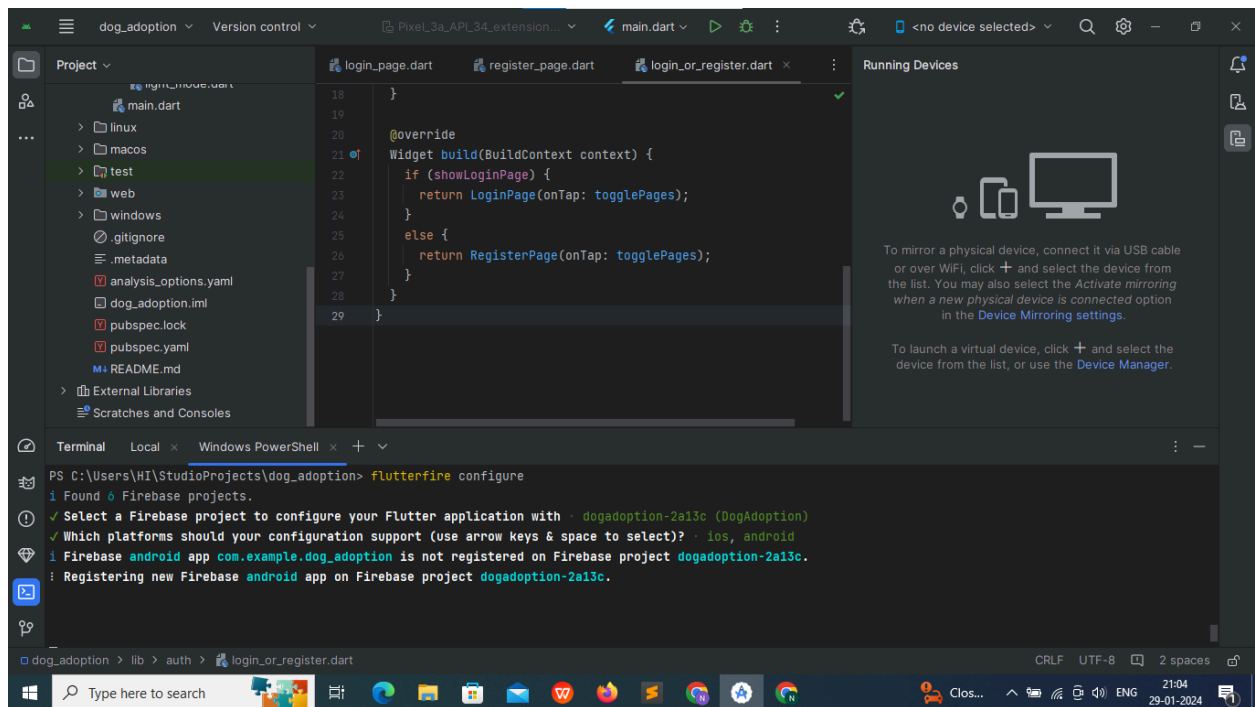
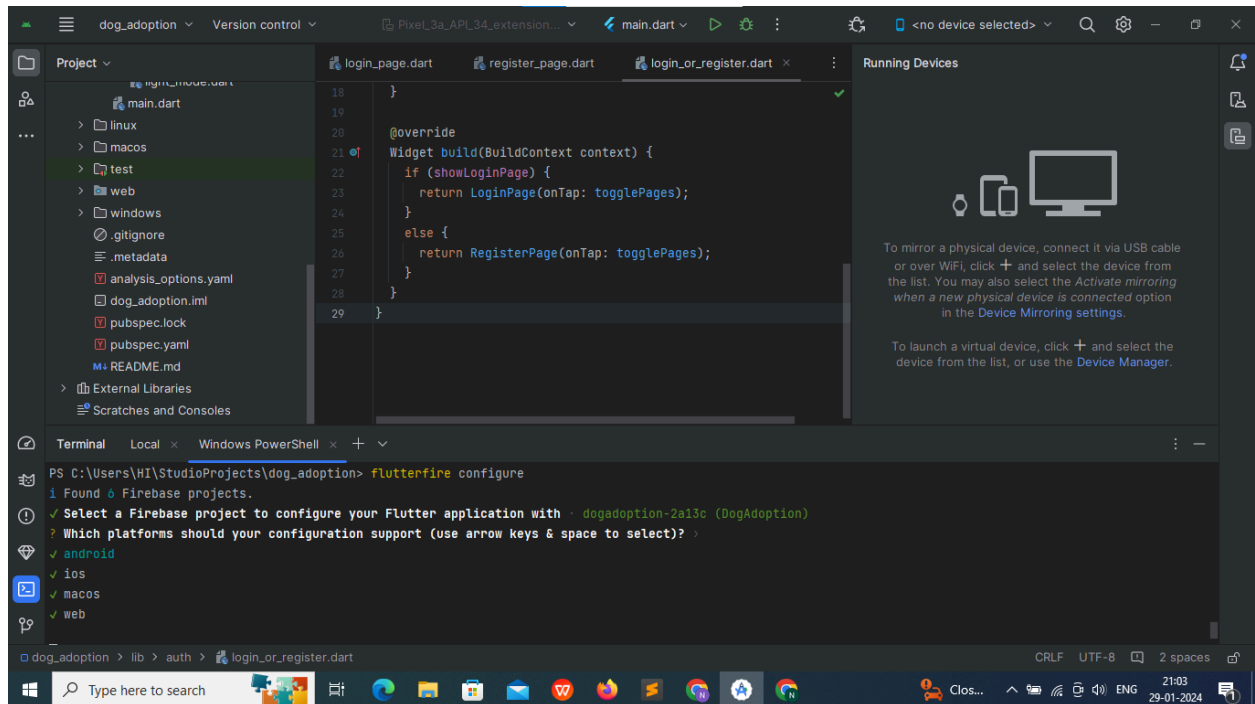
Go to your project and in the terminal of your project enter the following commands:

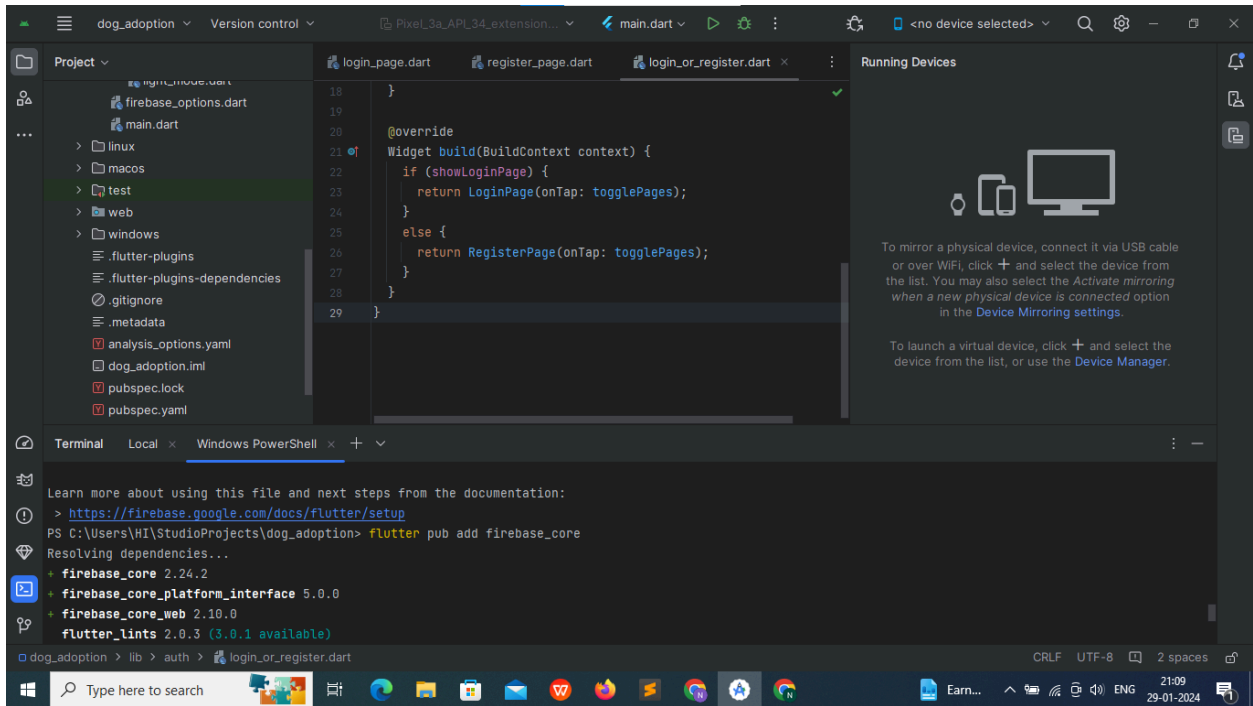
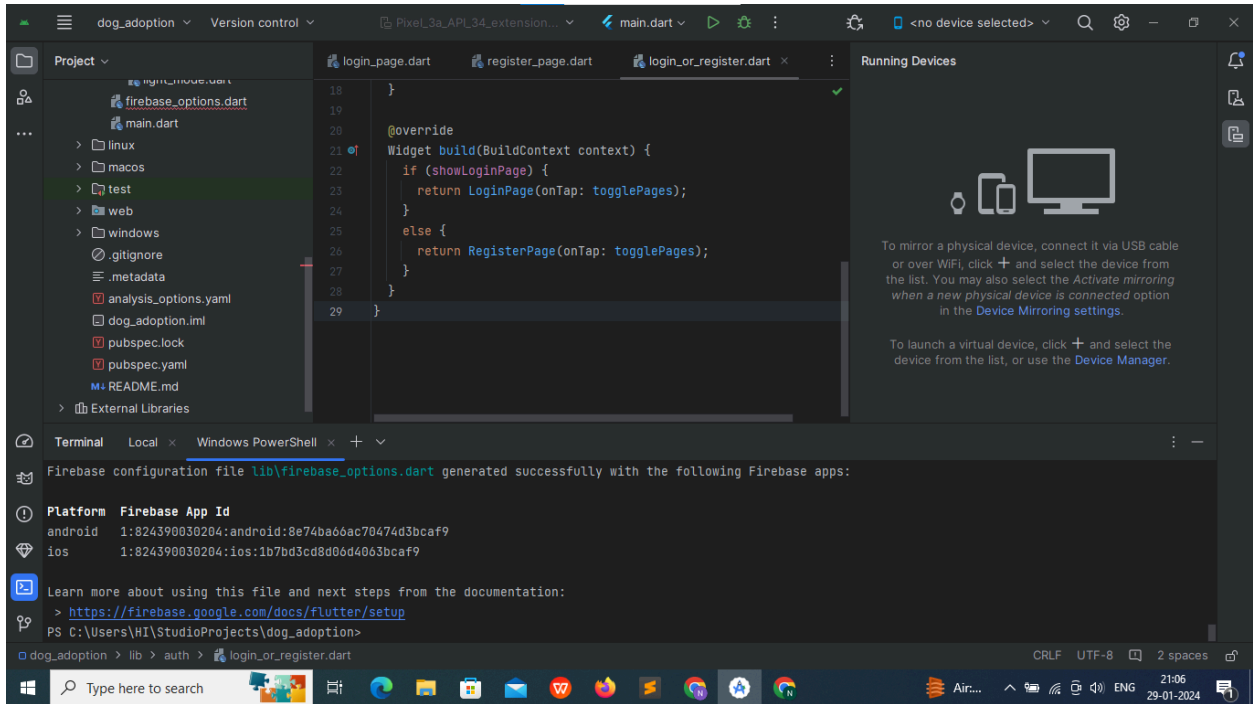
firebase login

dart pub global activate flutterfire\_cli (Once all the files are downloaded, add the path to the environment variables).

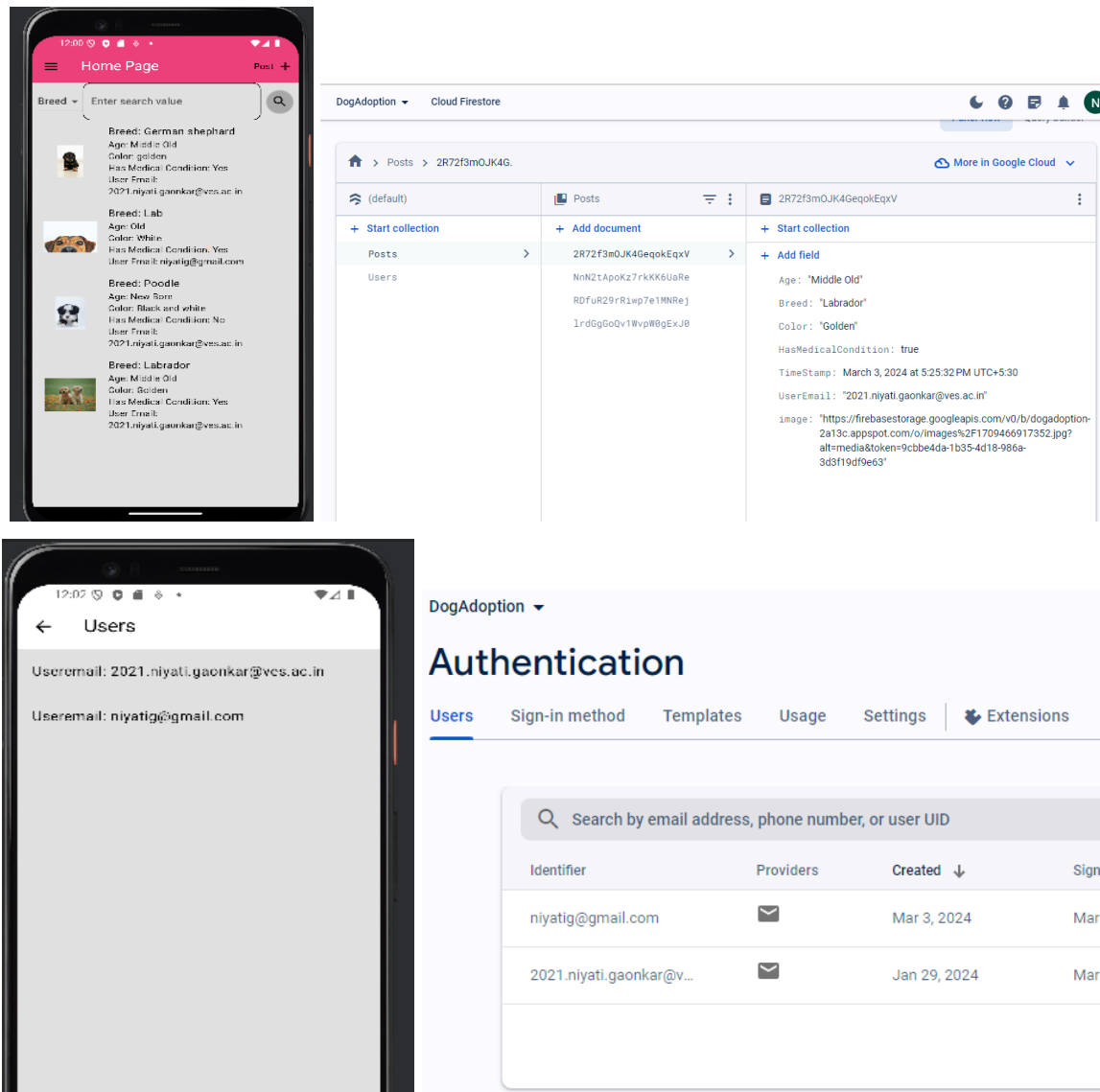
flutterfire configure







## Output:



**CONCLUSION:** Thus we have successfully connected our firebase database with our flutter app. We have used firebase for authenticating users and storing their information as well as storing the posts . We have used storage to store images.