ASSIGNMENT:

Project#4
Topic: "Designing a Note App using Flutter"

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Table of Contents

List Of Figures

1.Setup Firebase:

I Made sure my System has:

- Npm downloaded
- Flutter sdk downloaded
- Packages downloaded and all set

Then,

- I started by downloading and setting fies in pubspec.yaml file   packages like firebase_core, cloud_firestore and the most important firebase_auth.
- The build project in firebase
- Then I chose flutter project.
- I Run commands given at that point in command propmpt and terminal of my project directory respectively.
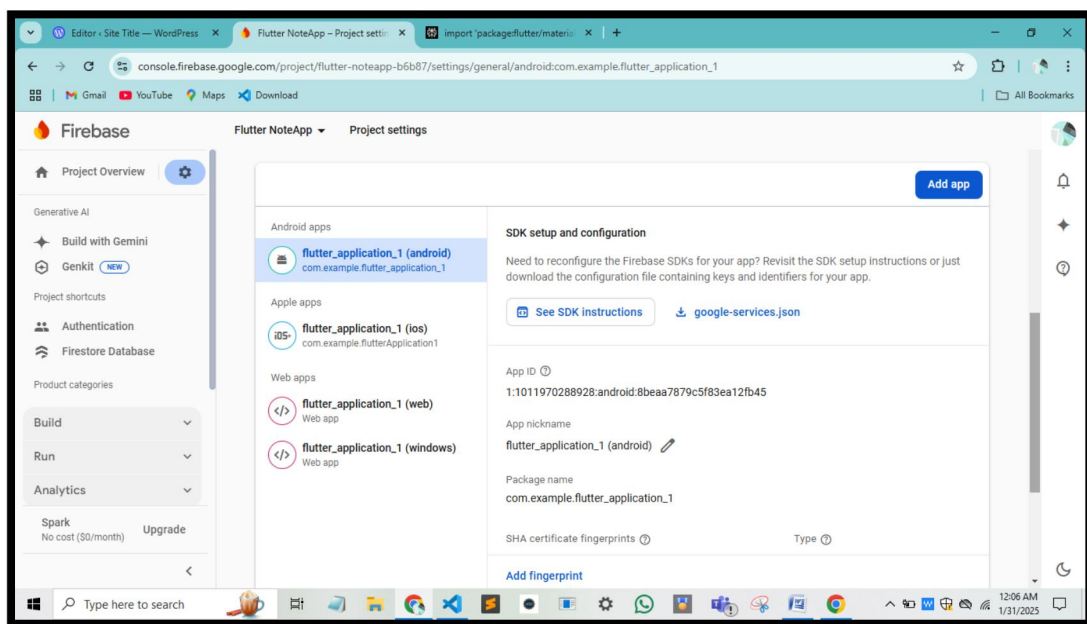- After performing all major steps it looked like this:

Figure 1 : Firebase Setup for all devices(android, ios, windows etc)

2. Authentication Screen:

SignIn page + LoginIn Page

- **I made a separate file for services I want to get from firebase . In my case, I used login and sign in service.**
  The complete code is attached with document but the main functions I used to access firebase are these:

  Functions:

  1. [For Registering a new user with email and pass]
  auth.SignInWithEmailAndPassword(email,password)

  2. [For Loggin In a exixting user with email and pass]
  auth.createUserWithEmailAndPassword(email,password)

- **I made UI for them in a page where I made Signin and Login screen merged at a same page. It looks like this:**
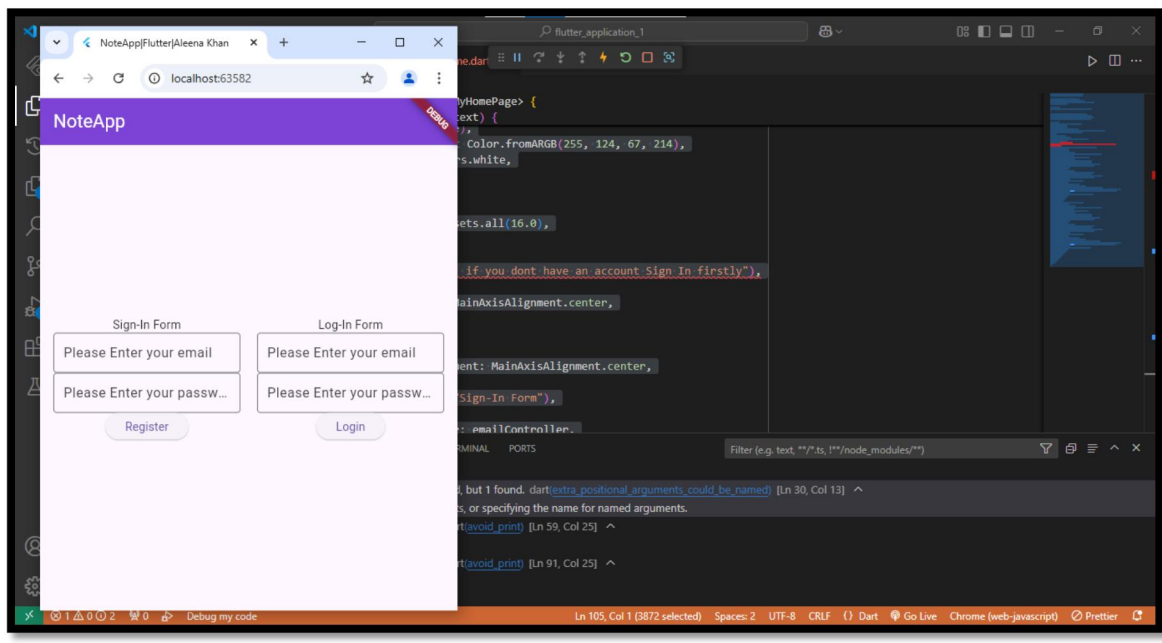

Figure 2: **SignIn & Login form**

3. Home Screen:

- It is the main screen after logging in where all my added notes appear.
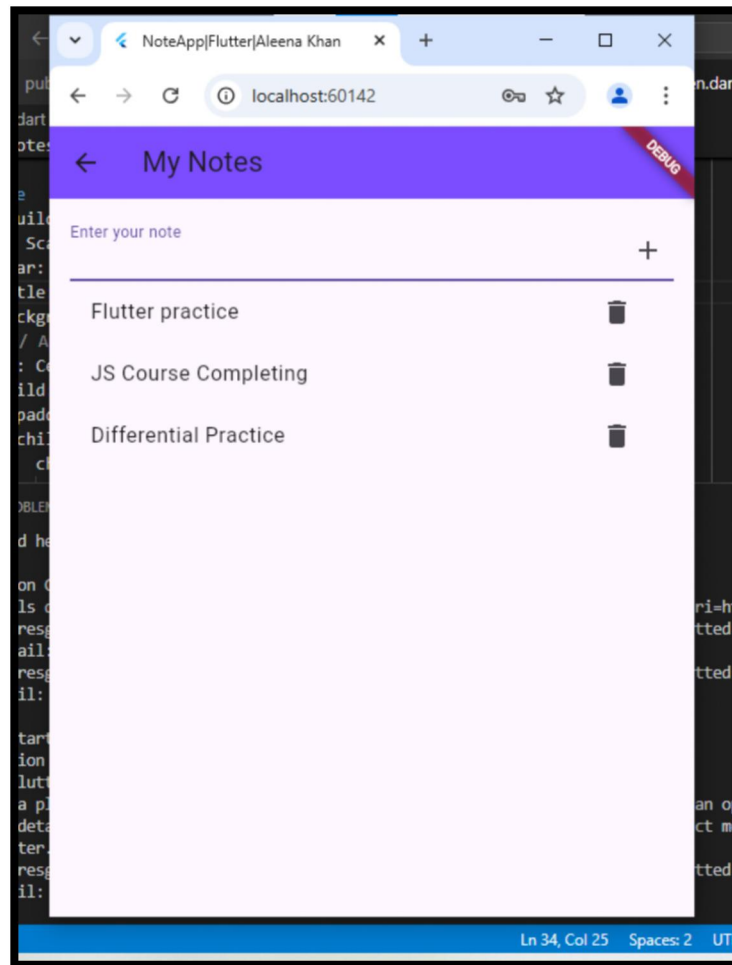 It looks like this:

Figure 3: Notes Screen View

4. Add/ Edit Notes:

- For add function, I simply made a class function using add() function I added notes
- In each function I added a functionality for performing a task repreatedly when needed
- On clicking the button, the function is called and the specific task gets performed

5. Firestore operations:

- Firestore is similar to NoSql .

- We have data stored in form of tables here
- I firstly went to 'firestore databases' and created database in TEST MODE

6. State management with provider:
- I skipped this step it was so tricky for me but I would surely be clearing my concepts for this for future use.
- Instead of provider , I just used setstate().
- I know the importance of provider to make efficient use of app and save time , keeping in mind the time complexity if there are so many widgets. I will be using in future projects INSHAALLAH.

7. UI Design:
- I used Text field widgets for taking user input stored the result in controller variables and used it
- I used Elevated buttons for performing actions or navigating to next page
- The Scaffold acts as a CANVAS for all UI
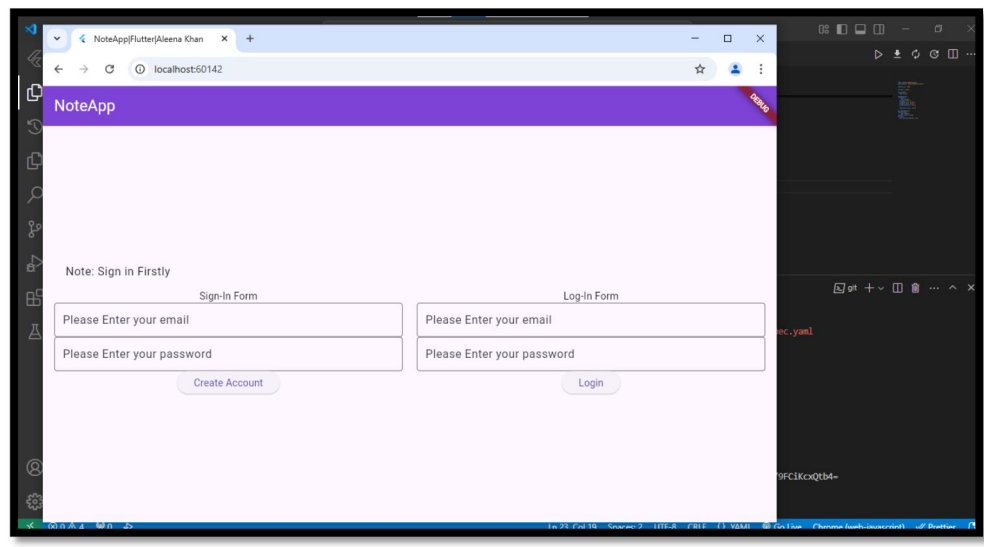
8. Test the App:

Figure 4 : Running the App

```
Registered with email: Aleena Khan
Error faced while resgistering [firebase_auth/invalid-email] The email address is badly formatted.
Logged in with email: Aleena Khan
```

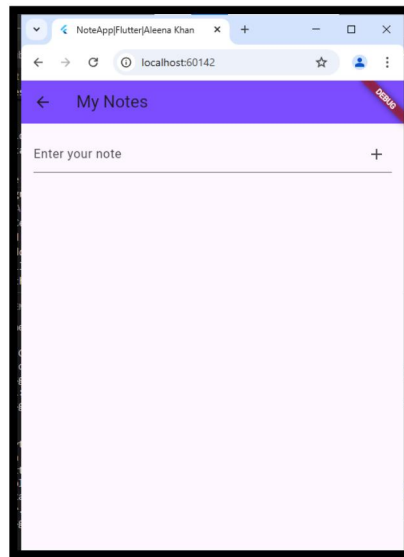**Figure 5: Registering user and Logging In using email & password**
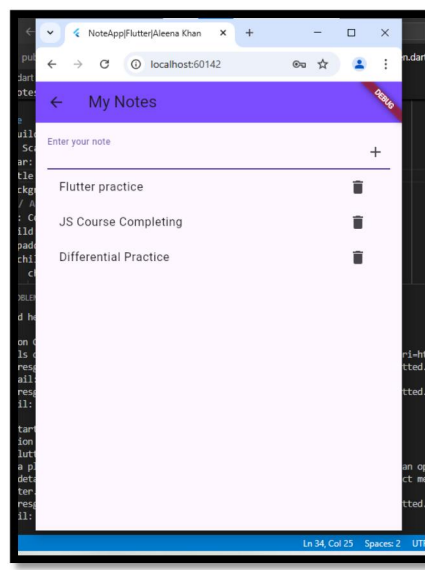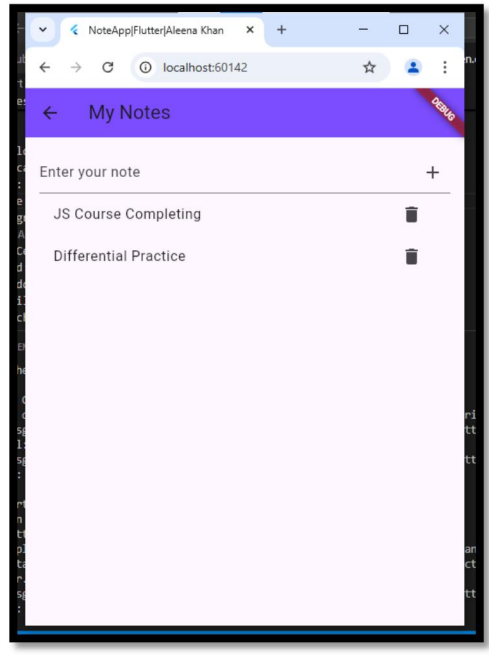

Figure 6: Home Page

Figure 7: Adding Notes

Figure 8: Deleting existing notes