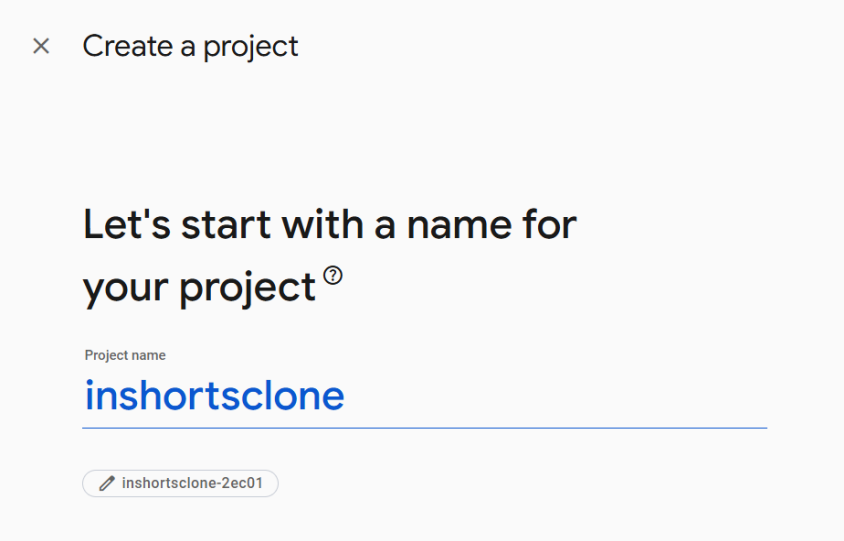
EXPERIMENT NO:- 6

Name:- Arnav Sawant D15A Roll-no:-52

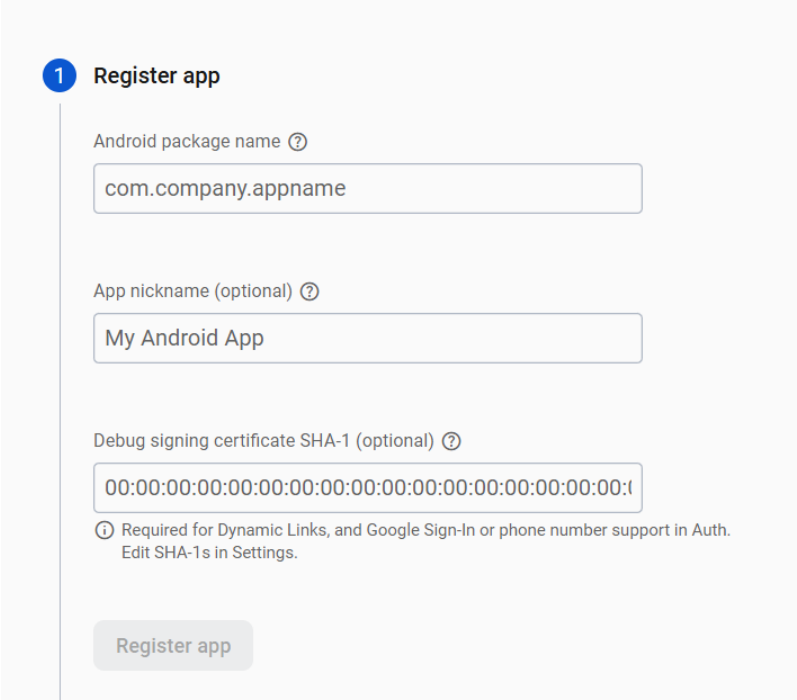
Aim:- To Connect flutter UI with firebase database

Creating a New Firebase Project



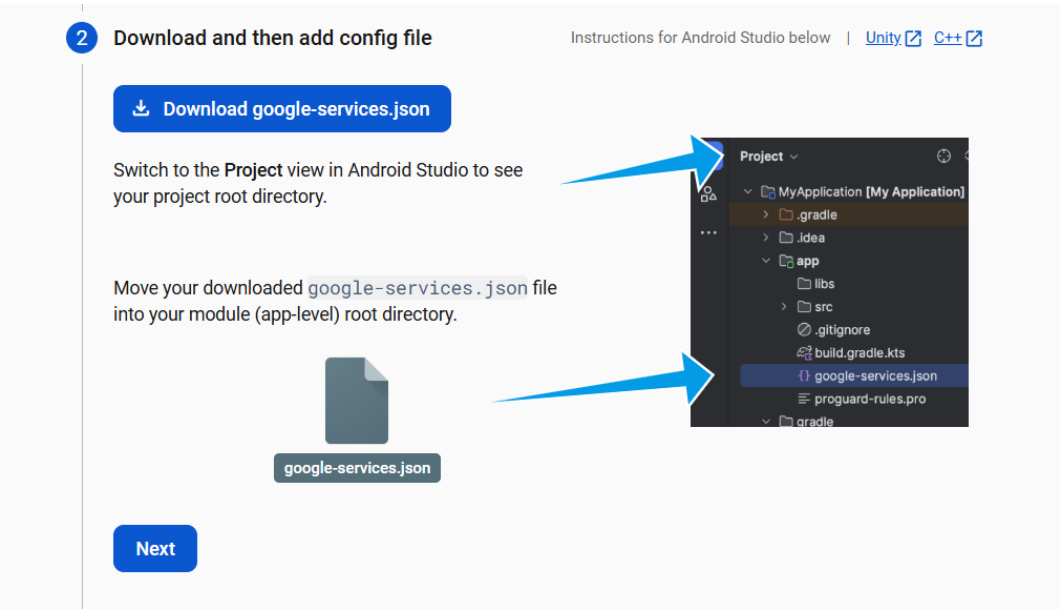
First, log in with your Google account to manage your Firebase projects. From within the Firebase dashboard, select the Create new project button and give it a name

In order to add Android support to our Flutter application, select the Android logo from the dashboard. This brings us to the following screen:

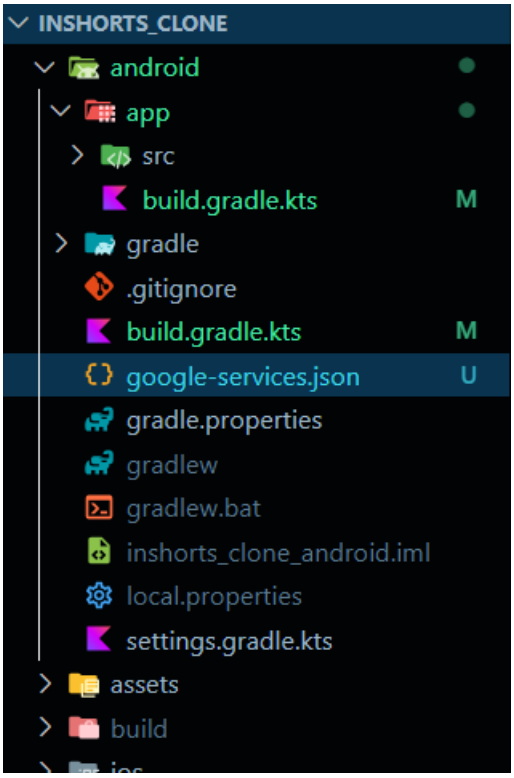


The most important thing here is to match up the Android package name that you choose here with the one inside of our application.

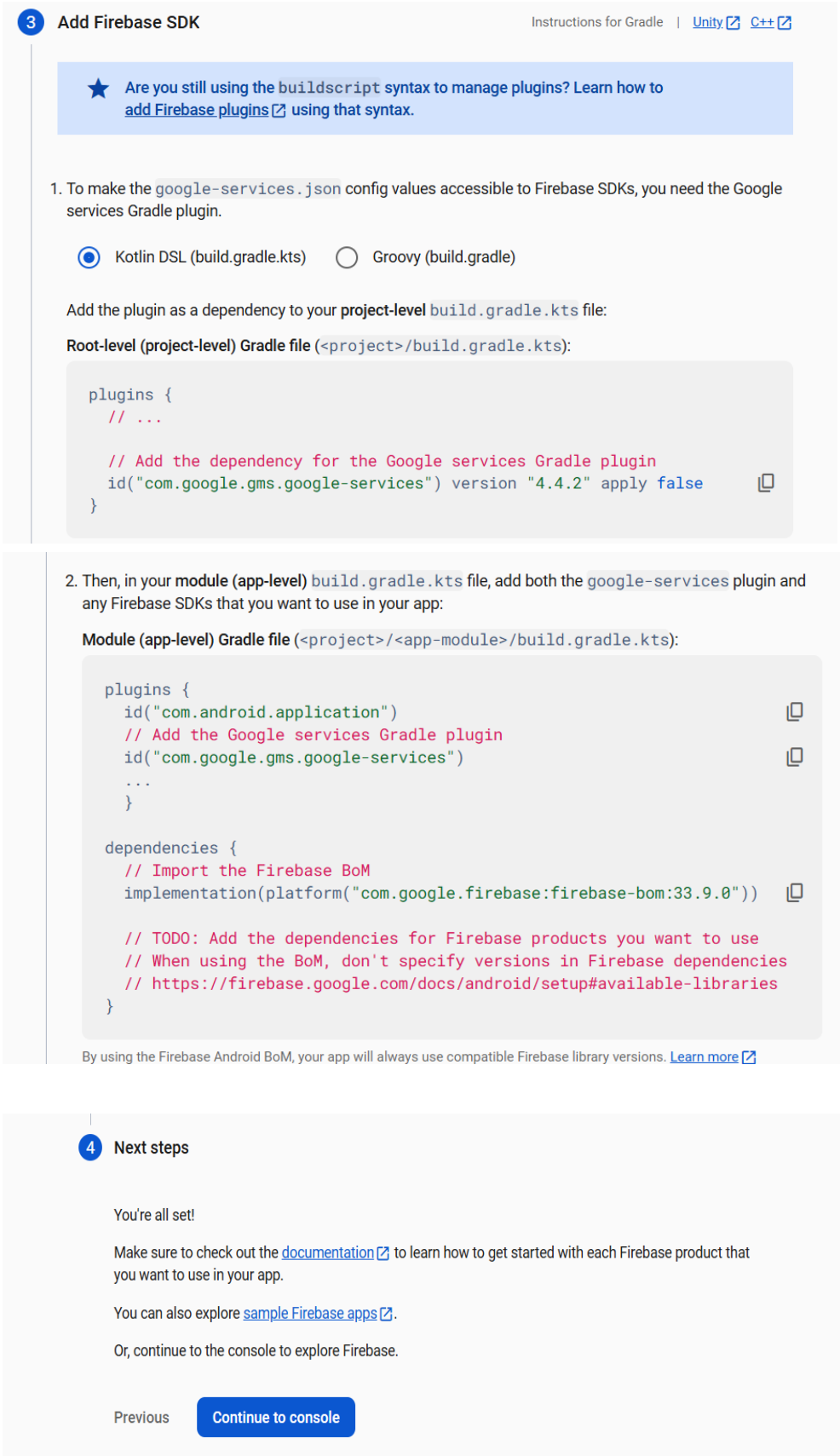
Then download the google-services.json file, that you will get.



put that file in the android folder (root level)



then select the build.gradle.kts (Kotlin DSL) part, and then follow the rest instructions

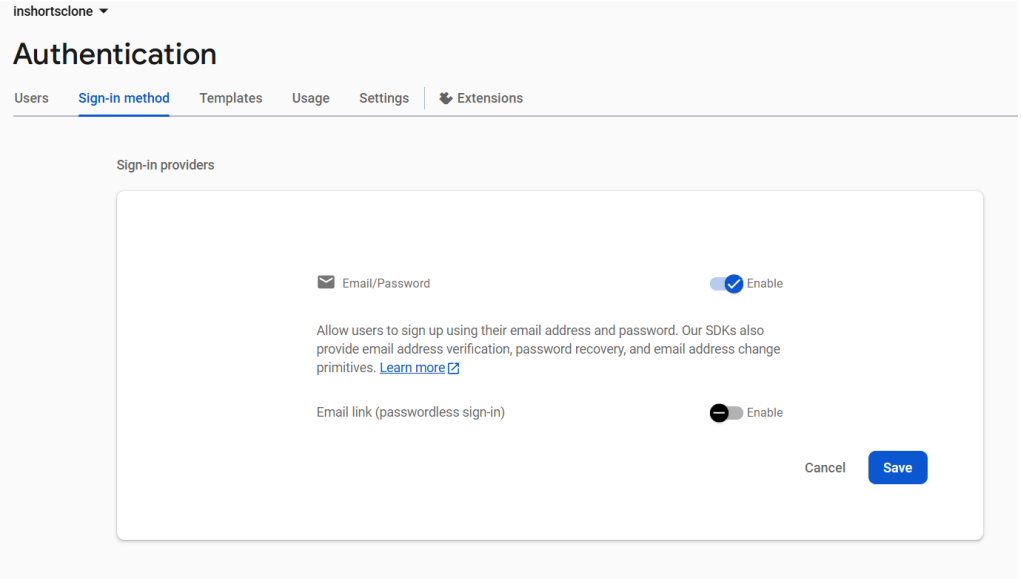


Generate the firebase_options.dart file, based on the google-services.json file

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

class DefaultFirebaseOptions {
  static FirebaseOptions get currentPlatform {
    return const FirebaseOptions(
      apiKey: "AIzaSyA_VIR7fj4d-b6tNZhW9qJ6GRRx5EXKqs0",
      appId: "1:388272292768:android:33180b2382688b18781ac5",
      messagingSenderId: "388272292768",
      projectId: "inshortsclone-848a9",
      storageBucket: "inshortsclone-848a9.firebasestorage.app",
      androidClientId: "1:388272292768:android:33180b2382688b18781ac5",
    );
  }
}
```

In your part select the sign-in method and enable it.



Code:-

```dart
import 'package:flutter/material.dart';
import 'login/login.dart';
import 'profile/editprofile.dart';
import 'profile/profile.dart';
import 'settings.dart';
import 'search/searchpage.dart';
import 'home.dart'; // Import HomeScreen
import 'package:firebase_core/firebase_core.dart';
import 'firebase_options.dart';

void main() async {
  WidgetsFlutterBinding.ensureInitialized();
  try {
    await Firebase.initializeApp(
      options: DefaultFirebaseOptions.currentPlatform,
    );
    debugPrint('🔥 Firebase initialized successfully!');
```

```
  } catch (e) {
    debugPrint('❌ Firebase initialization failed: $e');
  }
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: HomeScreenWrapper(), // Use a wrapper for bottom navigation
    );
  }
}

class HomeScreenWrapper extends StatefulWidget {
  @override
  _HomeScreenWrapperState createState() => _HomeScreenWrapperState();
}

class _HomeScreenWrapperState extends State<HomeScreenWrapper> {
  int _selectedIndex = 1;

  final List<Widget> _pages = [
    SearchPage(),
    HomeScreen(), // Changed LoginPage to HomeScreen
    ProfileScreen(),
    SettingsPage(),
  ];

  void _onItemTapped(int index) {
    setState(() {
      _selectedIndex = index;
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: IndexedStack(
        index: _selectedIndex,
        children: _pages,
      ),
      bottomNavigationBar: BottomNavigationBar(
        items: const <BottomNavigationBarItem>[
          BottomNavigationBarItem(
            icon: Icon(Icons.search),
            label: 'Search',
          ),
          BottomNavigationBarItem(
            icon: Icon(Icons.home),
            label: 'Home',
          ),
          BottomNavigationBarItem(
            icon: Icon(Icons.account_circle),
            label: 'Profile',
          ),
          BottomNavigationBarItem(
            icon: Icon(Icons.settings),
            label: 'Settings',
          ),
        ],
        currentIndex: _selectedIndex,
        selectedItemColor: Colors.blue,
        unselectedItemColor: Colors.grey,
        onTap: _onItemTapped,
        type: BottomNavigationBarType.fixed,
```

```
    ),                                                    }
  );                                                    }
```

Once you run this code this should be your output, if the firebase setup is successful , it would print “Firebase initialized successfully!”.