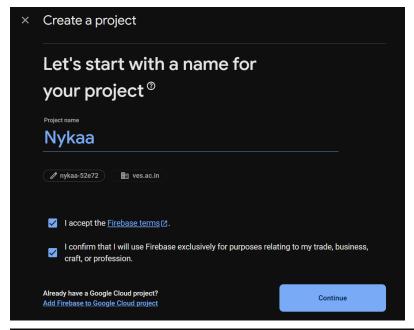
Project Title: Nykaa RollNo. 20

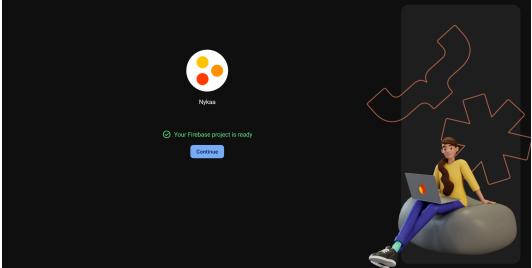
MAD & PWA Lab Journal

Experiment No.	06
Experiment Title.	To Connect Flutter UI with fireBase database
Roll No.	20
Name	Madhura Jangale
Class	D15A
Subject	MAD & PWA Lab
Lab Outcome	LO3: Analyze and Build production ready Flutter App by incorporating backend services and deploying on Android / iOS
Grade:	

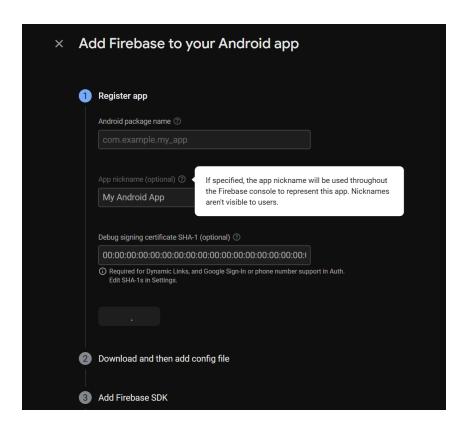
Creating a New Firebase Project

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.

Downloading the Config File

The next step is to add the Firebase configuration file into our Flutter project. This is important as it contains the API keys and other critical information for Firebase to use.

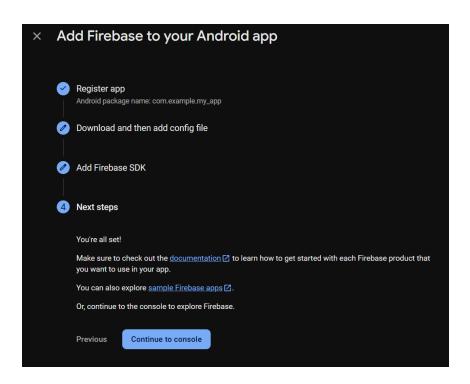
Select Download google-services.json from this page

In android/build.gradle add-

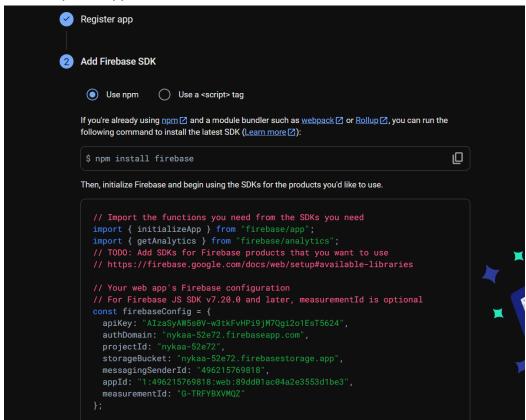
```
dependencies {
  classpath 'com.google.gms.google-services:4.4.2'
}
```

In app/build.gradle add-

```
dependencies{
  implementation platform('com.google.firebase:firebase-bom:33.9.0')
}
```



Lets setup web app-



In pubspec.yaml:

dependencies:

flutter:

sdk: flutter

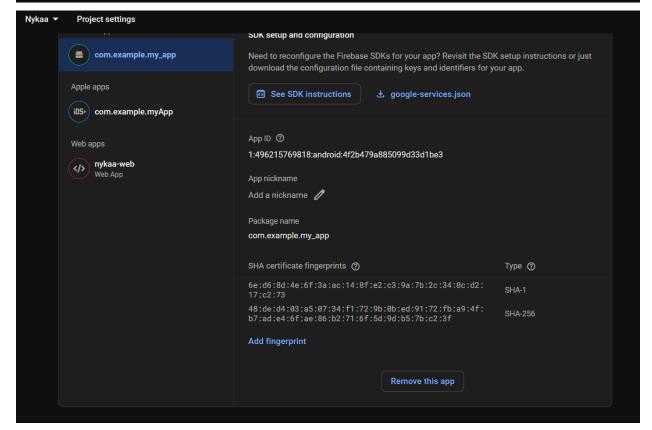
```
# The following adds the Cupertino Icons font to your application.
# Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.8
firebase_core: ^3.11.0
firebase_auth: ^5.4.2
cloud_firestore: ^5.6.3
firebase_storage: ^12.4.2
firebase_messaging: ^15.2.2
```

Firebase connection in code:

```
import 'package:flutter/material.dart';
import 'package:firebase_core/firebase_core.dart';
import 'home.dart';
void main() async {
WidgetsFlutterBinding.ensureInitialized();
try {
 await Firebase.initializeApp(
   options: const FirebaseOptions(
    apiKey: "AlzaSyAW5s0V-w3tkFvHPi9jM7Qqi2o1EsT5624",
    authDomain: "nykaa-52e72.firebaseapp.com",
    projectId: "nykaa-52e72",
    storageBucket: "nykaa-52e72.firebasestorage.app",
    messagingSenderId: "496215769818",
    appld: "1:496215769818:web:89dd01ac04a2e3553d1be3",
    measurementId: "G-TRFYBXVMQZ"));
 print("V Firebase connected successfully!");
} catch (e) {
 print("X Firebase initialization failed: $e");
}
runApp(MyApp());
}
```

Output:

Generate SHA key for authentication-



Enable the firestore API-

