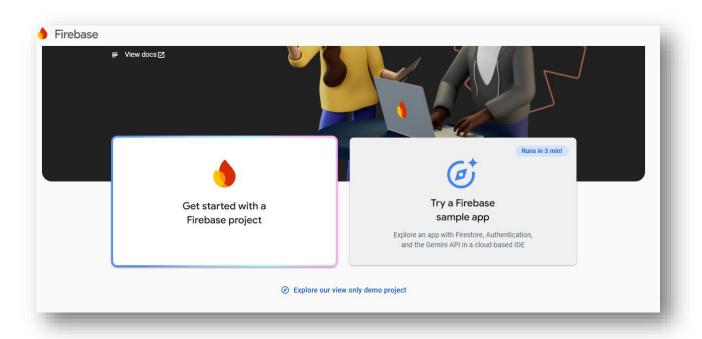
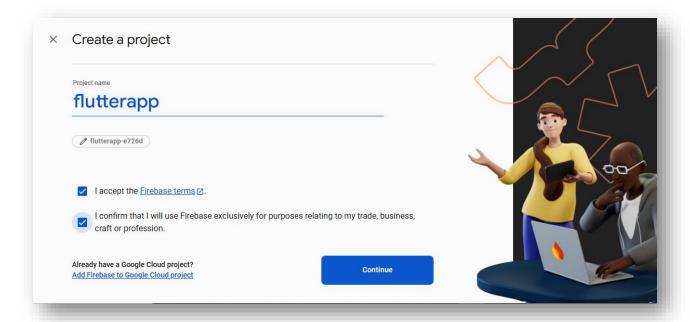
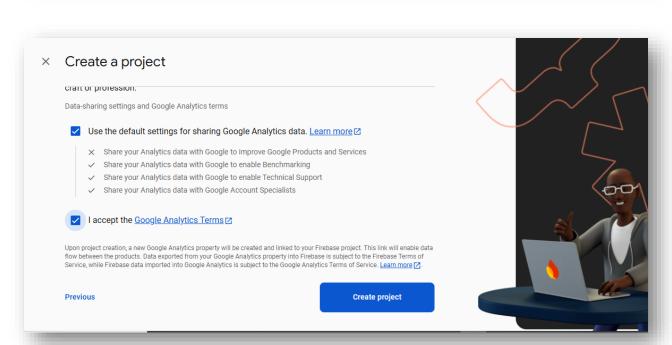
FLUTTER BOOTCAMP 2025 JAN 23- JAN 26, 2025 by ABDUL SAMI INTRODUCTION TO FLUTTER AND DART

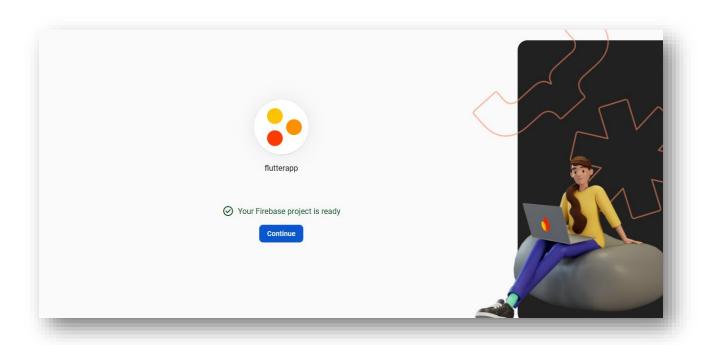
NAME: MARIAM IRSHAD

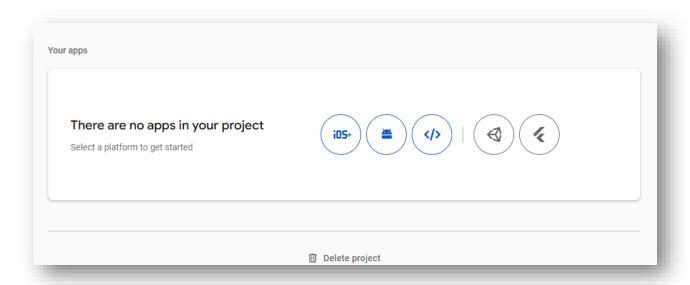
FINAL PROJECT



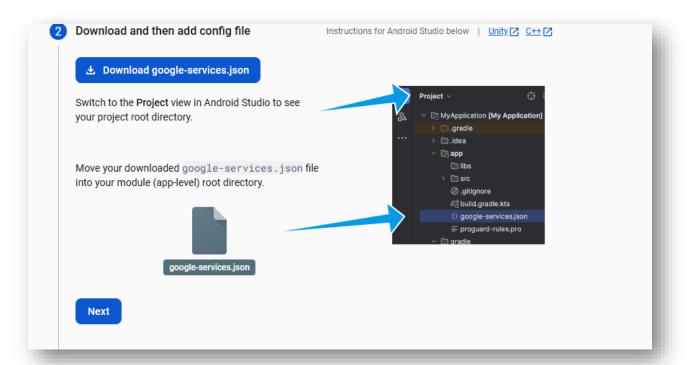


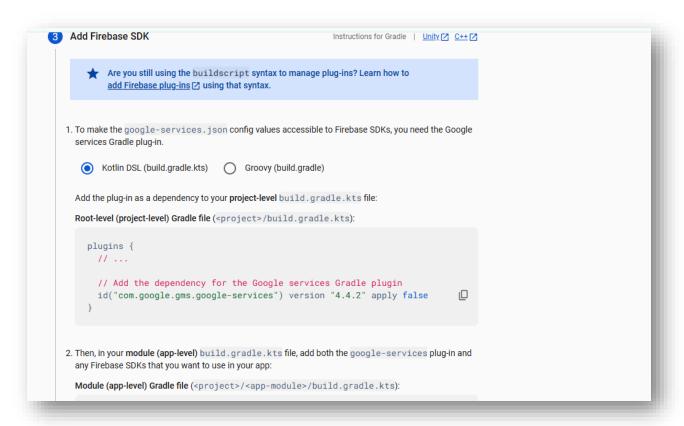


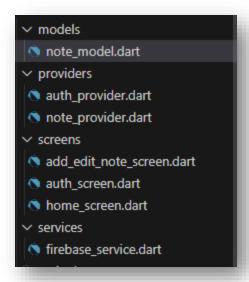




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Edit SHA-1s in settings.		and Google Sign-In or phone num	ber support in Auth.
	Edit SHA-1s in settings.		







main.dart

```
import 'package:flutter/material.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:provider/provider.dart';
import 'firebase_options.dart';
import 'providers/auth_provider.dart';
import 'providers/note_provider.dart';
import 'screens/auth_screen.dart';
import 'screens/home_screen.dart';

void main() async {
    WidgetsFlutterBinding.ensureInitialized();
    await Firebase.initializeApp(options: DefaultFirebaseOptions.currentPlatform);
    runApp(const MyApp());
}

class MyApp extends StatelessWidget {
    const MyApp({super.key});
```

```
@override
 Widget build(BuildContext context) {
  return MultiProvider(
   providers: [
    ChangeNotifierProvider(create: (context) => AuthProvider()),
    ChangeNotifierProvider(create: (context) => NoteProvider()),
   ],
   child: MaterialApp(
    debugShowCheckedModeBanner: false,
    title: 'Note App',
    theme: ThemeData(primarySwatch: Colors.blue),
    home: Consumer<AuthProvider>(
     builder: (context, authProvider, _) {
      return authProvider.isAuthenticated ? HomeScreen(): AuthScreen();
     },
    ),
   ),
  );
Provider.dart
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
class AuthProvider with ChangeNotifier {
final FirebaseAuth _auth = FirebaseAuth.instance;
 User? _user;
```

```
User? get user => _user;
 bool get isAuthenticated => _user != null;
AuthProvider() {
  _auth.authStateChanges().listen((user) {
   _user = user;
   notifyListeners();
 });
 }
 Future<void> signIn(String email, String password) async {
  await _auth.signInWithEmailAndPassword(email: email, password: password);
}
 Future<void> signUp(String email, String password) async {
  await _auth.createUserWithEmailAndPassword(email: email, password: password);
}
 Future<void> signOut() async {
  await _auth.signOut();
model.dart
class Note {
final String id;
final String title;
 final String content;
```

```
final DateTime createdAt;
 Note({required this.id, required this.title, required this.content, required this.createdAt});
 Map<String, dynamic> toMap() {
  return {'id': id, 'title': title, 'content': content, 'createdAt': createdAt.millisecondsSinceEpoch};
 }
 factory Note.fromMap(Map<String, dynamic> map) {
  return Note(
   id: map['id'],
   title: map['title'],
   content: map['content'],
   createdAt: DateTime.fromMillisecondsSinceEpoch(map['createdAt']),
  );
service.dart
import 'package:cloud_firestore/cloud_firestore.dart';
import '../models/note_model.dart';
class FirebaseService {
 final CollectionReference notesCollection = FirebaseFirestore.instance.collection('notes');
 Future<void> addNote(Note note) async {
  await notesCollection.doc(note.id).set(note.toMap());
```

```
Future<void> updateNote(Note note) async {
  await notesCollection.doc(note.id).update(note.toMap());
}
 Future<void> deleteNote(String noteId) async {
  await notesCollection.doc(noteId).delete();
}
Stream<List<Note>> getNotes() {
  return notesCollection.snapshots().map((snapshot) {
   return snapshot.docs.map((doc) => Note.fromMap(doc.data() as Map<String, dynamic>)).toList();
  });
 }
provider.dart
import 'package:flutter/material.dart';
import '../models/note_model.dart';
import '../services/firebase_service.dart';
class NoteProvider with ChangeNotifier {
 final FirebaseService _firebaseService = FirebaseService();
 List<Note>_notes = [];
 List<Note> get notes => _notes;
 void fetchNotes() {
  _firebaseService.getNotes().listen((notes) {
   _notes = notes;
```

```
notifyListeners();
  });
}
 Future<void> addNote(Note note) async {
  await _firebaseService.addNote(note);
}
 Future<void> updateNote(Note note) async {
  await _firebaseService.updateNote(note);
}
 Future<void> deleteNote(String noteId) async {
  await _firebaseService.deleteNote(noteId);
}
screen.dart
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';
import '../providers/auth_provider.dart';
class AuthScreen extends StatelessWidget {
final TextEditingController emailController = TextEditingController();
final TextEditingController passwordController = TextEditingController();
 @override
 Widget build(BuildContext context) {
  final authProvider = Provider.of<AuthProvider>(context);
```

```
return Scaffold(
appBar: AppBar(title: Text("Login / Signup")),
body: Column(
children: [
    TextField(controller: emailController, decoration: InputDecoration(labelText: "Email")),
    TextField(controller: passwordController, decoration: InputDecoration(labelText: "Password"),
obscureText: true),
    ElevatedButton(onPressed: () => authProvider.signIn(emailController.text, passwordController.text),
child: Text("Login")),
    TextButton(onPressed: () => authProvider.signUp(emailController.text, passwordController.text),
child: Text("Signup")),
    ],
    ),
    );
}
```



Login / Signup		
Email		
maryam@gmail.com		
Password		
•••••		
	Login	
	Signup	

