

MAD & PWA Lab

Journal

Experiment No.	06
Experiment Title.	To Connect Flutter UI with fireBase database
Roll No.	58
Name	Aditi Taksale
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:	

EXPERIMENT NO: 06

Name: Aditi Taksale

Class: D15A

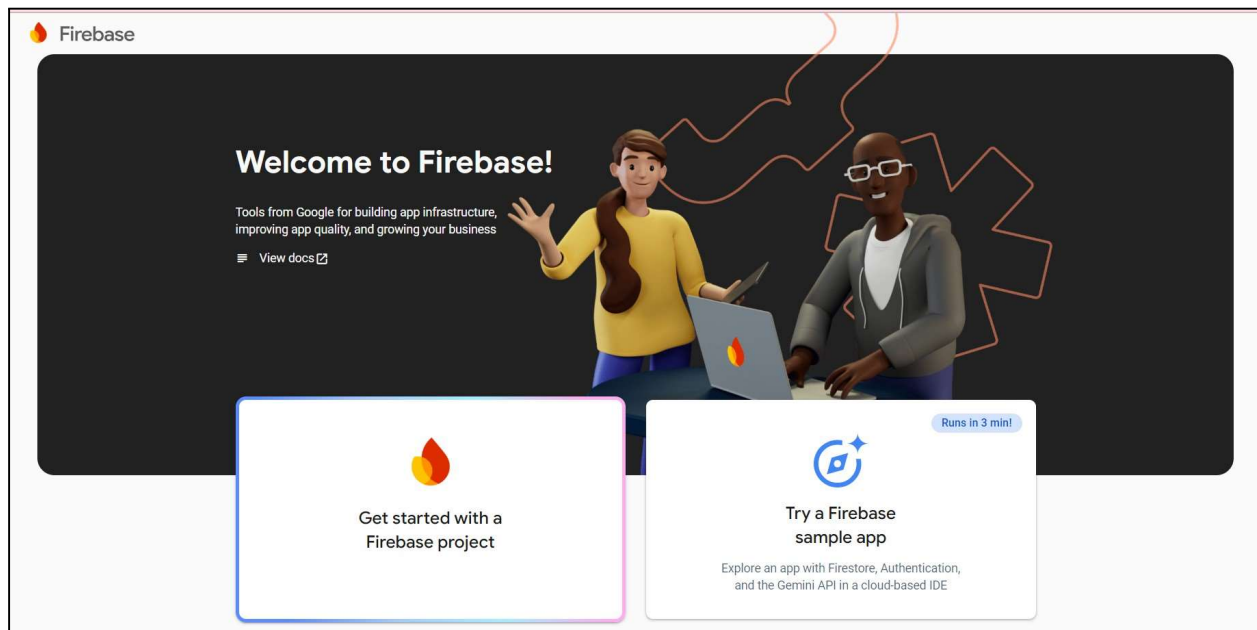
Roll No: 58

Aim: to connect flutter UI with Firebase

Steps:

Create a Firebase Project

- Go to Firebase Console.
- Click Create a project, enter name, and disable Google Analytics (optional).
- Click Continue to access the dashboard.



× Create a project

Let's start with a name for your project [?]

Project name
ETSYCLONE

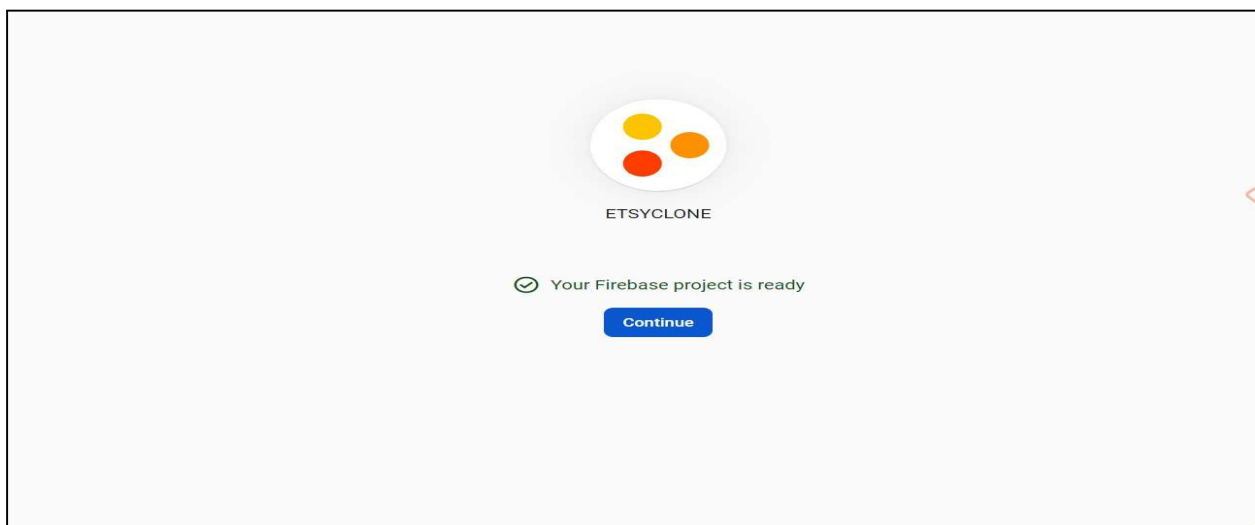
etsyclone-337ab Select parent resource

☒ I accept the [Firebase terms](#).

☒ I confirm that I will use Firebase exclusively for purposes relating to my trade, business, craft, or profession.

Already have a Google Cloud project?
[Add Firebase to Google Cloud project](#)

Continue



Register Your Flutter App

- Click **Add App** → Select **Android**.
- Enter package name (found in android/app/build.gradle).
- Click **Register App** and download google-services.json.
- Move google-services.json to android/app/ in your project.

X

1

②

```
com.example.etsy_clone
```

②

My Android App

②

00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:(

① Required for Dynamic Links, and Google Sign-In or phone number support in Auth. Edit SHA-1s in Settings.

Register app

2

3

×

Android package name: com.example.etsy_clone

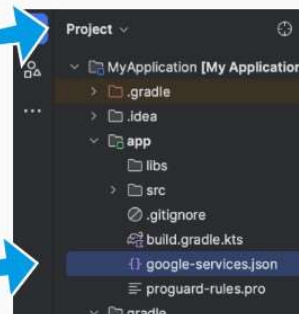
2

[Unity](#) [C++](#)

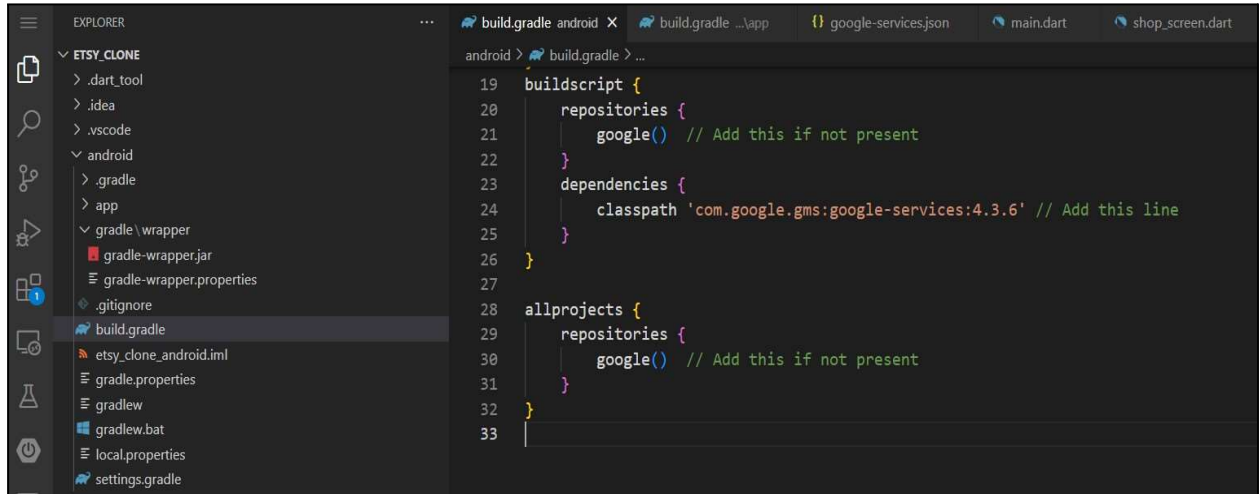
[Download google-services.json](#)

Switch to the **Project** view in Android Studio to see your project root directory.

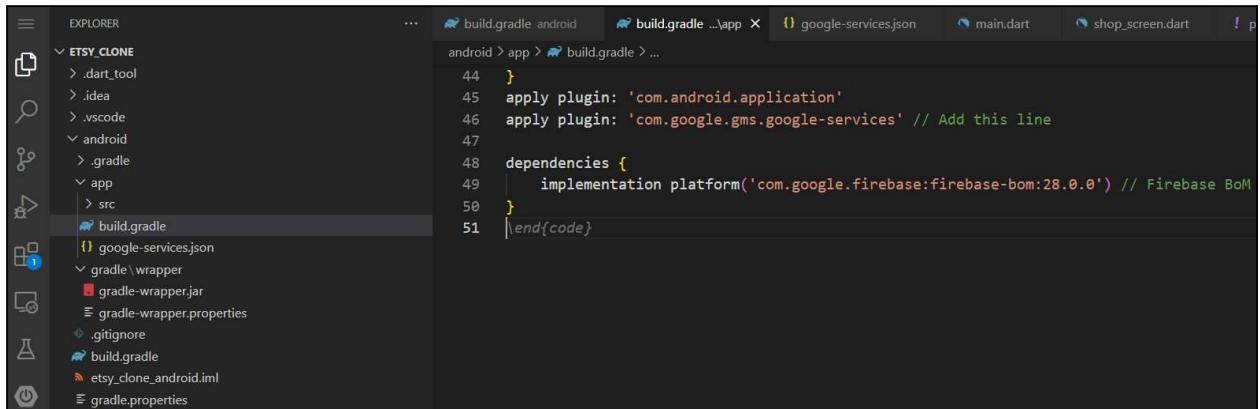
Move your downloaded `google-services.json` file into your module (app-level) root directory.



Next



- Configure Firebase in Flutter



3

Add Firebase SDK

Instructions for Gradle | [Unity](#) [C++](#)

★

Are you still using the `buildscript` syntax to manage plugins? Learn how to [add Firebase plugins](#) using that syntax.

1.

To make the `google-services.json` config values accessible to Firebase SDKs, you need the Google services Gradle plugin.

☐

Kotlin DSL (`build.gradle.kts`)

☒

Groovy (`build.gradle`)

Add the plugin as a dependency to your **project-level** `build.gradle` file:

Root-level (project-level) Gradle file (`<project>/build.gradle`):

```
plugins {  
    // ...  
  
    // Add the dependency for the Google services Gradle plugin  
    id 'com.google.gms.google-services' version '4.4.2' apply false  
}
```

2.

Then, in your **module (app-level)** `build.gradle` file, add both the `google-services` plugin and any Firebase SDKs that you want to use in your app:

Module (app-level) Gradle file (`<project>/<app-module>/build.gradle`):

```
plugins {  
    id 'com.android.application'  
    // Add the Google services Gradle plugin  
    id 'com.google.gms.google-services'
```

×

Add Firebase to your Android app

✓

Register app

Android package name: com.example.etsy_clone

🔗

Download and then add config file

🔗

Add Firebase SDK

4

Next steps

You're all set!

Make sure to check out the [documentation](#) to learn how to get started with each Firebase product that you want to use in your app.

You can also explore [sample Firebase apps](#).

Or, continue to the console to explore Firebase.

Previous

Continue to console

- Run flutterfire configure

```

PS C:\Documents\etsy_clone> flutterfire configure
>>
i Found 1 Firebase projects.
✓ Select a Firebase project to configure your Flutter application with · etsyclone-3920a (ETSYCLONE)
✓ Which platforms should your configuration support (use arrow keys & space to select)? · android, ios, macos, web, windows
i Firebase android app com.example.etsy_clone registered.
i Firebase ios app com.example.etsyClone is not registered on Firebase project etsyclone-3920a.
i Registered a new Firebase ios app on Firebase project etsyclone-3920a.
i Firebase macos app com.example.etsyClone registered.

```

- Initialize Firebase in main.dart

```

void main() async {
  WidgetsFlutterBinding.ensureInitialized();
  await Firebase.initializeApp(
    options: DefaultFirebaseOptions.currentPlatform,
  );
  print("Firebase has been initialized successfully!");
  runApp(EtsyClone()); // Use EtsyClone instead of MyApp
}

```

```

PS C:\Documents\etsy_clone> flutter run
Connected devices:
Windows (desktop) • windows • windows-x64 • Microsoft Windows [Version 10.0.22631.4890]
Chrome (web) • chrome • web-javascript • Google Chrome 133.0.6943.127
Edge (web) • edge • web-javascript • Microsoft Edge 133.0.3065.69
[1]: Windows (windows)
[2]: Chrome (chrome)
[3]: Edge (edge)
Please choose one (or "q" to quit): 2
Launching lib\main.dart on Chrome in debug mode...
Waiting for connection from debug service on Chrome... 25.8s
This app is linked to the debug service: ws://127.0.0.1:54216/w20w2sbpgeg=/ws
Debug service listening on ws://127.0.0.1:54216/w20w2sbpgeg=/ws

To hot restart changes while running, press "r" or "R".
For a more detailed help message, press "h". To quit, press "q".

A Dart VM Service on Chrome is available at: http://127.0.0.1:54216/w20w2sbpgeg=
The Flutter DevTools debugger and profiler on Chrome is available at: http://127.0.0.1:9101?uri=http://127.0.0.1:54216/w20w2sbpgeg=
Firebase has been initialized successfully!

```



ETSYCLONE ▾

Authentication

UsersSign-in methodTemplatesUsageSettingsExtensions

Sign-in providers


Add new provider

Provider	Status
 Email/Password	 Enabled

ETSYCLONE ▾

Authentication

UsersSign-in methodTemplatesUsageSettingsExtensions

 The following Authentication features will stop working when Firebase Dynamic Links shuts down on August 25, 2025: email link authentication for mobile apps, as well as Cordova OAuth support for web apps.








▾

🔍 Search by email address, phone number, or user UID

Add user

↻

⋮

Identifier	Providers	Created ▾	Signed In	User UID
abc@gmail.com		Feb 22, 2025	Feb 22, 2025	gKqm2bvWb4R1A0tEBu82eN...
arya@gmail.com		Feb 22, 2025	Feb 22, 2025	2q9ba5cNfDh581dO6iB7oHLv...
priya@gmail.com		Feb 22, 2025	Feb 22, 2025	TbOPBK8b5Sbxd5HEHFn5Qa...
shrushti@gmail.com		Feb 22, 2025	Feb 22, 2025	RsSdado9PQWxzAfLpyMx8fO...
kriti@gmail.com		Feb 22, 2025	Feb 22, 2025	hg7qOAG6qMOHLAJaILAc3Cr...
shreyaaa@gmail.com		Feb 22, 2025	Feb 22, 2025	hwz1GrsdffY86yqm0l206kOz...
shreya647@gmail.com		Feb 22, 2025		6kRkdhpcjzej7JNAXecskM2gl...