

A. P. SHAH INSTITUTE OF TECHNOLOGY

(NBA Accredited)

Department of Information Technology

Academic Year: 2024-25

Semester: VI

Class / Branch / Div: TE- IT B

Subject: MAD & PWA Lab

Name of Instructor: Prof. Manjusha Kashilkar

Name of Student:Mayank Student ID:22104003

Roll No.25

Date of Submission:13/3/25

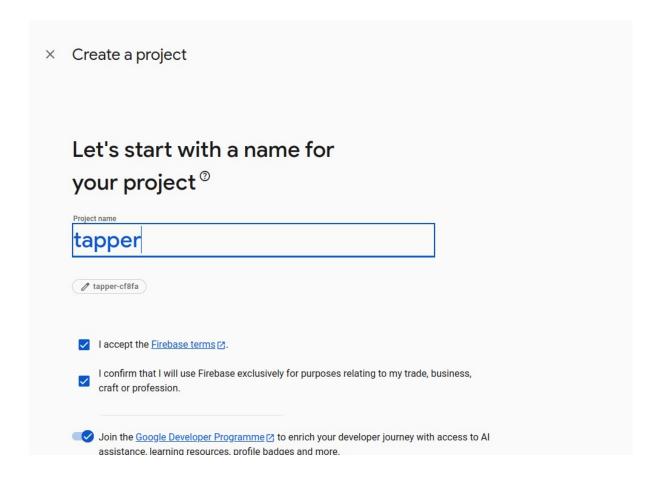
Experiment No.:7

Aim: To Implement fireBase connectivity to connect with Flutter UI

Prerequisites: Android studio, flutter SDK.

Software: Android studio, flutter SDK.

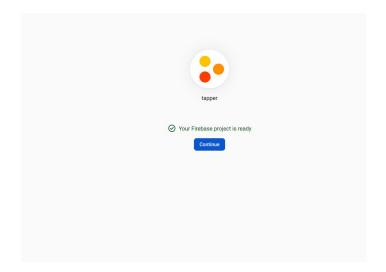
Screenshots:

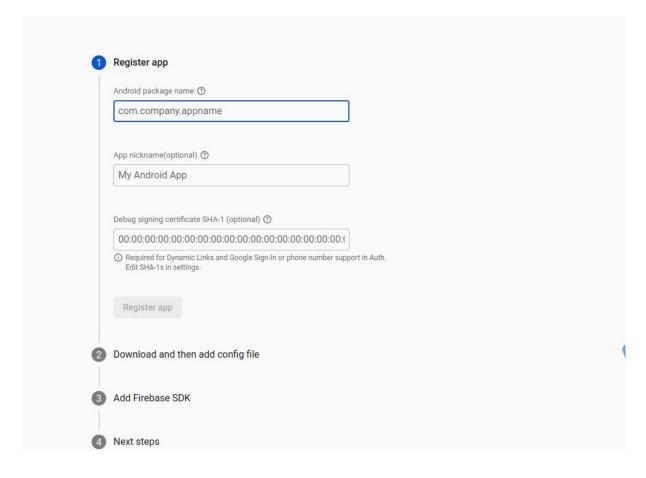




A. P. SHAH INSTITUTE OF TECHNOLOGY









A. P. SHAH INSTITUTE OF TECHNOLOGY



1	Register app
	Android package name ①
	com.example.flutter_application_1
	App nickname(optional) ③
	Tapper Debug signing certificate SHA-1 (optional) ②
	Tapper Debug signing certificate SHA-1 (optional) ② [00:00:00:00:00:00:00:00:00:00:00:00:00:
	Debug signing certificate SHA-1 (optional) ②
	Debug signing certificate SHA-1 (optional) ① D0:00:00:00:00:00:00:00:00:00:00:00:00:0

```
"project_info": {
> .idea
                                               "project_number": "875912971018",
"project_id": "tapper-cf8fa",
"storage_bucket": "tapper-cf8fa.firebasestorage.app"

✓ android

  w build.gradle
  {} google-services.js...
  > gradle
                                                     "mobilesdk app_id": "1:875912971018:android:5c78d7ce3710dc46f6
"android_client_info": {
 gitignore
"package name": "com.example.flutter application 1"
 flutter_application...
 gradle.properties
 ≡ gradlew
                                                  "api_key": [
= gradlew.bat
local.properties
                                                        "current_key": "AIzaSyC Ports unDxgYLJ_ll0rP-A6ooCEGvnPU"
🗬 settings.gradle
                               This app is linked to the debug service: ws://127.0.0.1:41881/2ZOAI3A3x0s=/ws Debug service listening on ws://127.0.0.1:41881/2ZOAI3A3x0s=/ws
∨ lib
                               ♣ To hot restart changes while running, press "r" or "R".
For a more detailed help message, press "h". To quit, press "q".
> linux
> macos
                               A Dart VM Service on Chrome is available at: http://127.0.0.1:41881/2ZOAI3A3x
The Flutter DevTools debugger and profiler on Chrome is available at:
http://127.0.0.1:9101?uri=http://127.0.0.1:41881/2ZOAI3A3x0s=
Application finished.
OUTLINE
TIMELINE
                               apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/mayank_25/flutter_application_
ACTION COMMENTS
```



A. P. SHAH INSTITUTE OF TECHNOLOGY



```
| plugins {
| id "com.android.application" |
| 3 id "kotlin-android" |
| // The Flutter Gradle Plugin must be applied after the Android and Kotlin Gradle plugins. |
| 5 id "dev.flutter.flutter-gradle-plugin" |
| 6 }
| 7 |
| PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL PORTS |
| Application finished. |
| apsit@apsit-HP-ProDesk-600-G4-PCI-MT:-/Desktop/mayank_25/flutter_application_1$ flutter pub add firebase_core firetholder |
| h cloud firestore |
| Resolving dependencies... |
| Downloading packages... |
| - flutterfire_internals 1.3.53 |
| async 2.11.0 (2.13.0 available) |
| boolean_selector 2.1.1 (2.1.2 available) |
| cloud firestore 7.1.1 (2.1.2 available) |
| cloud firestore 5.6.5 |
| cloud_firestore platform_interface 6.6.5 |
| cloud_firestore platform_interface 6.6.5 |
| cloud_firestore platform_interface 7.6.1 |
| firebase_auth b.5.1 |
| firebase_auth_platform_interface 7.6.1 |
| firebase_core jlatform_interface 5.4.0 |
| firebase_core jlatform_interface 5.4.0 |
| firebase_core plugins 0.0.0 from sdk flutter |
| http_parser 4.1.2 |
```



A. P. SHAH INSTITUTE OF TECHNOLOGY



```
android > app > 🗬 build.gradle
      plugins [
          id "com.android.application"
          id "dev.flutter.flutter-gradle-plugin'
          apply plugin: "com.google.gms.google-services"
      android {
          namespace = "com.example.flutter application 1"
          compileSdk = flutter.compileSdkVersion
          ndkVersion = flutter.ndkVersion
          compileOptions {
               sourceCompatibility = JavaVersion.VERSION 1 8
               targetCompatibility = JavaVersion.VERSION_1_8
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
  stream_channel 2.1.2 (2.1.4 available)
  string_scanner 1.3.0 (1.4.1 available)
  term_glyph 1.2.1 (1.2.2 available)
  test_api 0.7.3 (0.7.4 available)
typed_data 1.4.0
  vm_service 14.3.0 (15.0.0 available)
+ web 1.1.1
Changed 15 dependencies!
```

```
lib > 🐧 main.dart > ધ CounterApp
      import 'package:flutter/material.dart';
import 'package:firebase_core/firebase_core.dart';
      void main() async {
       WidgetsFlutterBinding.ensureInitialized();
        await Firebase.initializeApp();
        runApp(MyApp());
      @override
        Widget build(BuildContext context) {
          return MaterialApp(
           debugShowCheckedModeBanner: false,
           home: CounterApp(),
          ); // MaterialApp
PROBLEMS 3 OUTPUT
                                 TERMINAL
  stream_channel 2.1.2 (2.1.4 available)
  string_scanner 1.3.0 (1.4.1 available)
  term_glyph 1.2.1 (1.2.2 available)
  test_api 0.7.3 (0.7.4 available)
  typed_data 1.4.0
  vm_service 14.3.0 (15.0.0 available)
  web 1.1.1
 Changed 15 dependencies!
```

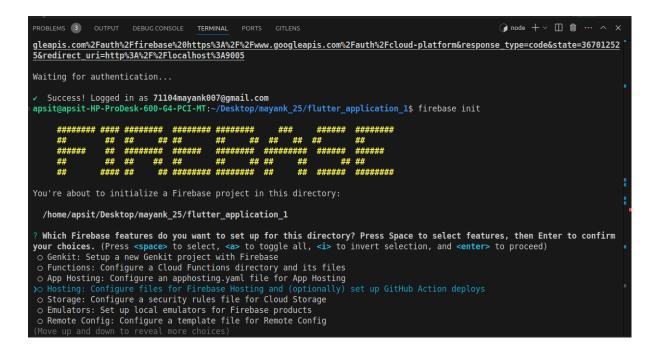


A. P. SHAH INSTITUTE OF TECHNOLOGY



```
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/mayank_25/flutter_application_1$ npm install -g firebase-tools
changed 630 packages in 40s
71 packages are looking for funding
 run `npm fund` for details
```

```
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/mayank_25/flutter_application_1$ firebase login
i Firebase optionally collects CLI and Emulator Suite usage and error reporting information to help improve our products.
Data is collected in accordance with Google's privacy policy (https://policies.google.com/privacy) and is not used to ide
ntify you.
       Allow Firebase to collect CLI and Emulator Suite usage and error reporting information? Yes
           To change your data collection preference at any time, run `firebase logout` and log in again.
Visit this URL on this device to log in: https://accounts.google.com/o/oauth2/auth?client_id=563584335869-fgrhgmd47bqnekij5i8b5pr03ho849e6.apps.googleusercontent.com&scope=email%20openid%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformpr
gleapis.com%2Fauth%2Ffirebase%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform&response_type=code&state=36701252
5&redirect_uri=http%3A%2F%2Flocalhost%3A9005
Waiting for authentication...
         Success! Logged in as 71104mayank007@gmail.com
```

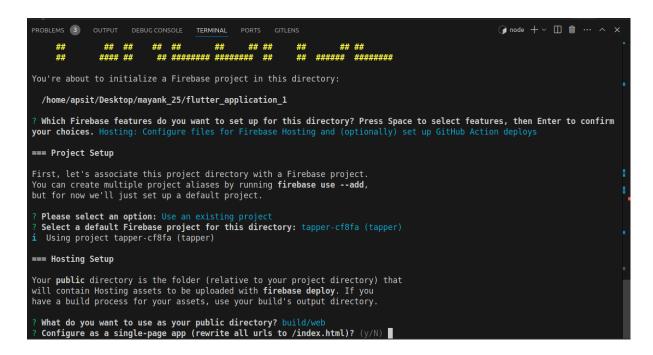




A. P. SHAH INSTITUTE OF TECHNOLOGY



```
🌶 node 🕂 🗸 🖽 🛍 … 🔨 🗙
PROBLEMS 3 OUTPUT
                                   TERMINAL PORTS
  Success! Logged in as 71104mayank007@gmail.com
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/mayank_25/flutter_application_1$ firebase init
     ###
                                                              ######
                                               ## ## ##
                   ##
                                        ####### ########
                                                              ######
You're about to initialize a Firebase project in this directory:
  /home/apsit/Desktop/mayank_25/flutter_application_1
? Which Firebase features do you want to set up for this directory? Press Space to select features, then Enter to confirm
your choices. Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys
=== Project Setup
First, let's associate this project directory with a Firebase project.
You can create multiple project aliases by running firebase use --add, but for now we'll just set up a default project.
 Please select an option: Use an existing project
Select a default Firebase project for this directory: (Use arrow keys)
```





A. P. SHAH INSTITUTE OF TECHNOLOGY



(NBA Accredited)

```
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
your choices. Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys
=== Project Setup
First, let's associate this project directory with a Firebase project.
You can create multiple project aliases by running firebase use --add, but for now we'll just set up a default project.
? Please select an option: Use an existing project
? Select a default Firebase project for this directory: tapper-cf8fa (tapper)
i Using project tapper-cf8fa (tapper)
=== Hosting Setup
Your public directory is the folder (relative to your project directory) that will contain Hosting assets to be uploaded with firebase deploy. If you have a build process for your assets, use your build's output directory.
 What do you want to use as your public directory? build/web Configure as a single-page app (rewrite all urls to /index.html)? Yes Set up automatic builds and deploys with GitHub? No
   Wrote build/web/index.html
   Writing configuration info to firebase.json...
i Writing project information to .firebaserc...
    Firebase initialization complete!
```

```
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/mayank_25/flutter_application_1$ flutter build web
Font asset "CupertinoIcons.ttf" was tree-shaken, reducing it from 257628 to 1172 bytes (99.5% reduction). Tree-shaking can be disabled by providing the --no-tree-shake-icons flag when building your app.

Font asset "MaterialIcons-Regular.otf" was tree-shaken, reducing it from 1645184 to 7760 bytes (99.5% reduction).

Tree-shaking can be disabled by providing the --no-tree-shake-icons flag when building your app.

Compiling lib/main.dart for the Web... 30.4s
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/mayank_25/flutter_application_1$ flutter deploy
Run 'flutter -h' (or 'flutter <command> -h') for available flutter commands and options.
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/mayank_25/flutter_application_1$ firebase deploy
```

Conclusion: In this experiment we have Implemented fireBase connectivity to connect with Flutter UI