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## Department of Information Technology

**Academic Year:** 2024-25

**Semester:** VI

**Class / Branch / Div:** TE- IT C

**Subject:** MAD & PWA Lab

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**Roll No.** 13

**Date of Submission:** 06/03/25

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### Experiment No.7

**Aim** : To Implement fireBase connectivity to connect with Flutter UI.

**Prerequisites** : Android studio, flutter SDK

**Software** : Android studio, flutter SDK

**Problem Statement** : Implement firebase connectivity for Email-Password authentication.

**Code** :

**main.dart** :

```
import 'package:flutter/material.dart';
```

```
void main() {
```

```
  runApp(const MyApp());
```

```
}
```

```
class MyApp extends StatelessWidget {
```

```
  const MyApp({super.key});
```

```
@override
```



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```
Widget build(BuildContext context) {
```

```
  return MaterialApp(
```

```
    title: 'Flutter Demo',
```

```
    theme: ThemeData(
```

```
      colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
```

```
      useMaterial3: true,
```

```
    ),
```

```
    home: const MyHomePage(title: 'Flutter Demo Home Page'),
```

```
  );
```

```
}
```

```
}
```

```
class MyHomePage extends StatefulWidget {
```

```
  const MyHomePage({super.key, required this.title});
```

```
  final String title;
```

```
  @override
```

```
  State<MyHomePage> createState() => _MyHomePageState();
```

```
}
```

```
class _MyHomePageState extends State<MyHomePage> {
```

```
  int _counter = 0;
```



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```
void _incrementCounter() {  
  
    setState(() {  
  
        _counter++;  
  
    });  
}
```

@override

```
Widget build(BuildContext context) {
```

```
    return Scaffold(  
        appBar: AppBar(  
            backgroundColor: Theme.of(context).colorScheme.inversePrimary,  
            title: Text(widget.title),  
        ),  
        body: Center(  
  
            child: Column(  
  
  
                mainAxisAlignment: MainAxisAlignment.center,  
                children: <Widget>[  
  
                    const Text(  
                        'You have pushed the button this many times:',
```



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```
),  
  
Text(  
    '$_counter',  
    style: Theme.of(context).textTheme.headlineMedium,  
),  
],  
),  
),  
floatingActionButton: FloatingActionButton(  
    onPressed: _incrementCounter,  
    tooltip: 'Increment',  
    child: const Icon(Icons.add),  
), // This trailing comma makes auto-formatting nicer for build methods.  
);  
}  
}
```

**app/buid.gradle :**

```
plugins {  
    id "com.android.application"  
    id "kotlin-android"  
  
    // The Flutter Gradle Plugin must be applied after the Android and Kotlin Gradle plugins.  
    id "dev.flutter.flutter-gradle-plugin"  
    id 'com.google.gms.google-services'
```



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}

android {

namespace = "com.example.firebase\_series"

compileSdk = flutter.compileSdkVersion

ndkVersion = flutter.ndkVersion

compileOptions {

sourceCompatibility = JavaVersion.VERSION\_1\_8

targetCompatibility = JavaVersion.VERSION\_1\_8

}

kotlinOptions {

jvmTarget = JavaVersion.VERSION\_1\_8

}

defaultConfig {

// TODO: Specify your own unique Application ID

(<https://developer.android.com/studio/build/application-id.html>).

applicationId = "com.example.firebase\_series"

// You can update the following values to match your application needs.

// For more information, see: <https://flutter.dev/to/review-gradle-config>.

minSdk = flutter.minSdkVersion

targetSdk = flutter.targetSdkVersion



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```
versionCode = flutter.versionCode

versionName = flutter.versionName

}

buildTypes {

    release {

        // TODO: Add your own signing config for the release build.

        // Signing with the debug keys for now, so `flutter run --release` works.

        signingConfig = signingConfigs.debug

    }

}

flutter {

    source = "../.."

}

dependencies {

    // Import the Firebase BoM

    implementation platform('com.google.firebase:firebase-bom:33.10.0')

    implementation 'com.google.firebase:firebase-analytics'

}
```



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**android/build.gradle :**

```
allprojects {  
  
    repositories {  
  
        google()  
  
        mavenCentral()  
  
    }  
  
}  
  
rootProject.buildDir = "../build"  
  
subprojects {  
  
    project.buildDir = "${rootProject.buildDir}/${project.name}"  
  
}  
  
subprojects {  
  
    project.evaluationDependsOn(":app")  
  
}  
  
tasks.register("clean", Delete) {  
  
    delete rootProject.buildDir  
  
}
```



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```
}
```

```
dependencies {
```

```
    classpath 'com.google.gms.google-services:4.4.2'
```

```
}
```

**google-services.json :**

```
{
```

```
  "project_info": {
```

```
    "project_number": "340194694858",
```

```
    "project_id": "fir-series-dummy-28500",
```

```
    "storage_bucket": "fir-series-dummy-28500.firebaseiostorage.app"
```

```
  },
```

```
  "client": [
```

```
    {
```

```
      "client_info": {
```

```
        "mobilesdk_app_id": "1:340194694858:android:948ede07b5edea87108633",
```

```
        "android_client_info": {
```

```
          "package_name": "com.example.firebase_series"
```

```
        }
```

```
      },
```





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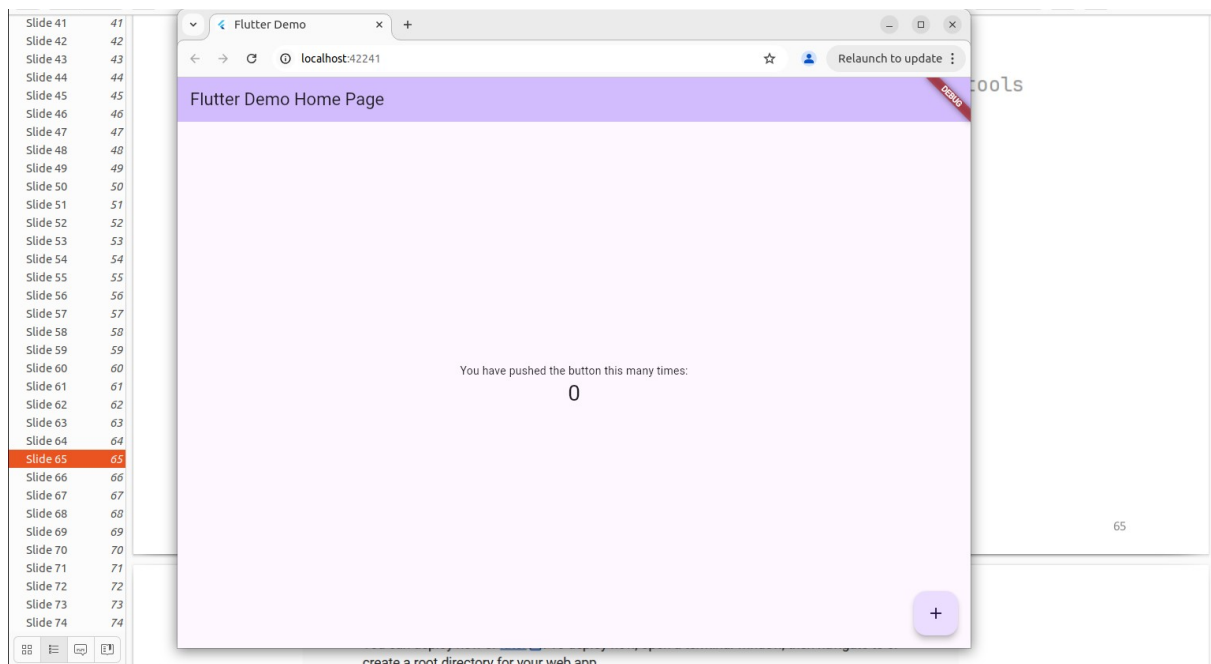
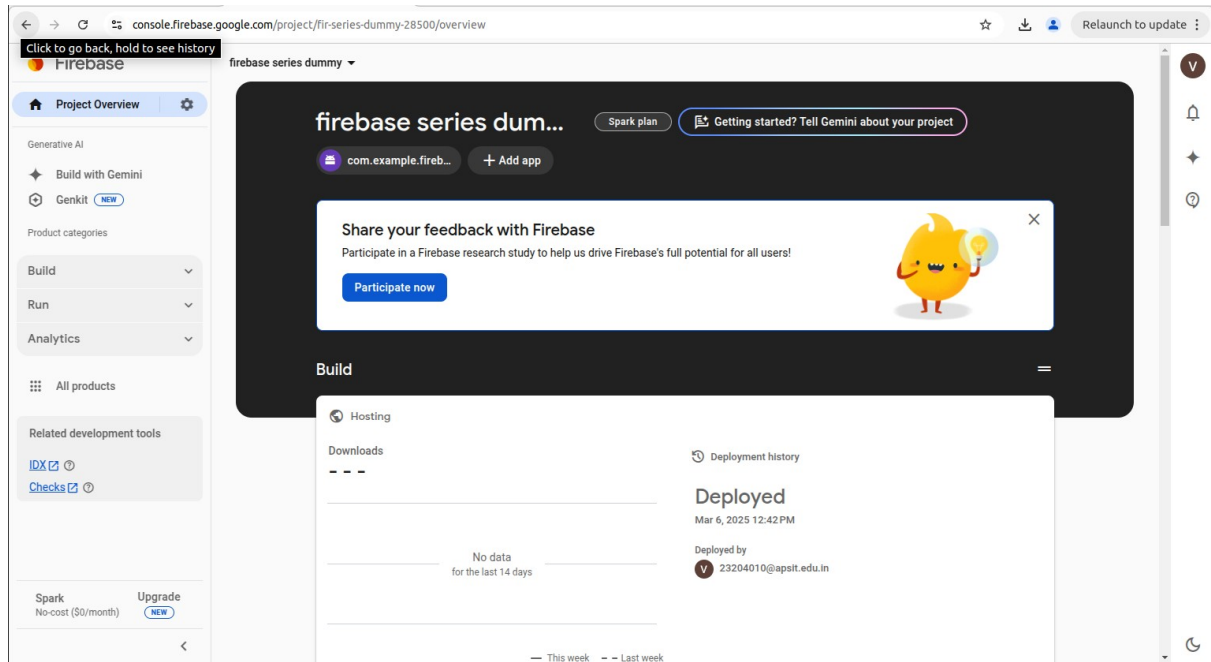
```
"oauth_client": [],  
  
"api_key": [  
  
  {  
  
    "current_key": "AIzaSyC9n4xOKRri9f9arB2uBqJOTzbUu3ySs7E"  
  
  }  
],  
  
"services": {  
  
  "appinvite_service": {  
  
    "other_platform_oauth_client": []  
  
  }  
  
}  
  
},  
  
"configuration_version": "1"  
  
}
```



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**Output :**





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