

A. P. SHAH INSTITUTE OF TECHNOLOGY



Department of Information Technology

Academic Year: 2024-25 Name of Student: Sahil Ghag

Semester: VI Student ID:22104057

Class / Branch / Div: TE- IT A Roll No.37

Subject: MAD & PWA Lab Date of Submission:3/04/25

Name of Instructor: Prof.Saylee Lipalikar

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:

1. Main.dart



A. P. SHAH INSTITUTE OF TECHNOLOGY



```
// try changing the seedColor in the colorScheme below to Colors.green
    // and then invoke "hot reload" (save your changes or press the "hot
     // reload" button in a Flutter-supported IDE, or press "r" if you used
    // the command line to start the app).
    // Notice that the counter didn't reset back to zero; the application
     // state is not lost during the reload. To reset the state, use hot
    // restart instead.
    // This works for code too, not just values: Most code changes can be
    // tested with just a hot reload.
     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});
 // This widget is the home page of your application. It is stateful, meaning
 // that it has a State object (defined below) that contains fields that affect
 // how it looks.
 // case the title) provided by the parent (in this case the App widget) and
 // used by the build method of the State. Fields in a Widget subclass are
 // always marked "final".
 final String title;
 @override
 State<MyHomePage> createState() => _MyHomePageState();
```



A. P. SHAH INSTITUTE OF TECHNOLOGY



(NBA Accredited)

```
class MyHomePageState extends State<MyHomePage> {
 int counter = 0;
 void incrementCounter() {
  setState(() {
   // This call to setState tells the Flutter framework that something has
   // changed in this State, which causes it to rerun the build method below
   // so that the display can reflect the updated values. If we changed
   // counter without calling setState(), then the build method would not be
   // called again, and so nothing would appear to happen.
   counter++;
  });
 @override
 Widget build(BuildContext context) {
  // by the _incrementCounter method above.
  // The Flutter framework has been optimized to make rerunning build methods
  // fast, so that you can just rebuild anything that needs updating rather
  // than having to individually change instances of widgets.
  return Scaffold(
   appBar: AppBar(
    // TRY THIS: Try changing the color here to a specific color (to
    // Colors.amber, perhaps?) and trigger a hot reload to see the AppBar
     backgroundColor: Theme.of(context).colorScheme.inversePrimary,
     // Here we take the value from the MyHomePage object that was created by
     // the App.build method, and use it to set our appbar title.
     title: Text(widget.title),
   body: Center(
     // Center is a layout widget. It takes a single child and positions it
     // in the middle of the parent.
```



A. P. SHAH INSTITUTE OF TECHNOLOGY



(NBA Accredited)

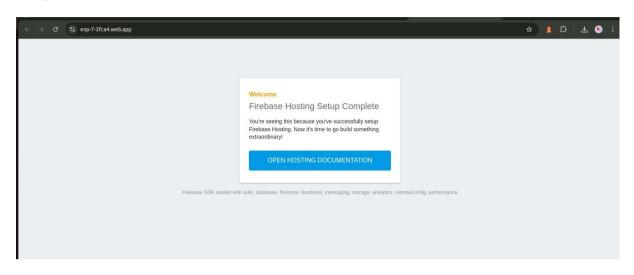
```
child: Column(
    // Column is also a layout widget. It takes a list of children and
    // arranges them vertically. By default, it sizes itself to fit its
    // children horizontally, and tries to be as tall as its parent.
    // Column has various properties to control how it sizes itself and
    // how it positions its children. Here we use mainAxisAlignment to
    // axis because Columns are vertical (the cross axis would be
    // TRY THIS: Invoke "debug painting" (choose the "Toggle Debug Paint"
    // action in the IDE, or press "p" in the console), to see the
    // wireframe for each widget.
    mainAxisAlignment: MainAxisAlignment.center,
    children: <Widget>[
     const Text(
       'You have pushed the button this many times:',
      Text(
       '$ counter',
       style: Theme.of(context).textTheme.headlineMedium,
    ],
  floatingActionButton: FloatingActionButton(
   onPressed: incrementCounter,
   tooltip: 'Increment',
   child: const lcon(lcons.add),
  ), // This trailing comma makes auto-formatting nicer for build methods.
}
```



A. P. SHAH INSTITUTE OF TECHNOLOGY

(NBA Accredited)

Output:



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