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ROLL NO - 33

MPL EXP 4

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

import 'package:firebase_auth/firebase_auth.dart';

import 'package:firebase_core/firebase_core.dart';

void main() async {

  WidgetsFlutterBinding.ensureInitialized();

  await Firebase.initializeApp();

  runApp(MyApp());

}

class MyApp extends StatelessWidget {

  @override

  Widget build(BuildContext context) {

    return MaterialApp(

      home: AuthScreen(),

    );

  }

}

class AuthScreen extends StatefulWidget {

  @override

  _AuthScreenState createState() => _AuthScreenState();

}
```

```
class _AuthScreenState extends State<AuthScreen> {  
  final FirebaseAuth _auth = FirebaseAuth.instance;  
  final TextEditingController _emailController = TextEditingController();  
  final TextEditingController _passwordController = TextEditingController();  
  
  Future<void> register() async {  
    try {  
      await _auth.createUserWithEmailAndPassword(  
        email: _emailController.text,  
        password: _passwordController.text,  
      );  
      ScaffoldMessenger.of(context).showSnackBar(  
        SnackBar(content: Text("Registration Successful")),  
      );  
    } catch (e) {  
      ScaffoldMessenger.of(context).showSnackBar(  
        SnackBar(content: Text(e.toString())),  
      );  
    }  
  }  
  
  Future<void> login() async {  
    try {  
      await _auth.signInWithEmailAndPassword(  
        email: _emailController.text,  
        password: _passwordController.text,
```

```
);  
Navigator.pushReplacement(  
  context,  
  MaterialPageRoute(builder: (context) => HomeScreen()),  
);  
} catch (e) {  
  ScaffoldMessenger.of(context).showSnackBar(  
    SnackBar(content: Text(e.toString())),  
  );  
}  
}  
  
@override  
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(title: Text("Flutter Firebase Auth")),  
    body: Padding(  
      padding: EdgeInsets.all(16.0),  
      child: Column(  
        children: [  
          TextField(  
            controller: _emailController,  
            decoration: InputDecoration(labelText: "Email"),  
          ),  
          TextField(  

```

```

controller: _passwordController,
decoration: InputDecoration(labelText: "Password"),
obscureText: true,
),
SizedBox(height: 20),
ElevatedButton(onPressed: register, child: Text("Register")),
ElevatedButton(onPressed: login, child: Text("Login")),
],
),
),
);
}
}

```

```

class HomeScreen extends StatelessWidget {
final FirebaseAuth _auth = FirebaseAuth.instance;

@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text("Home"),
actions: [
IconButton(
icon: Icon(Icons.logout),
onPressed: () async {

```

```
await _auth.signOut();

Navigator.pushReplacement(
  context,
  MaterialPageRoute(builder: (context) => AuthScreen()),
);

},

)

],

),

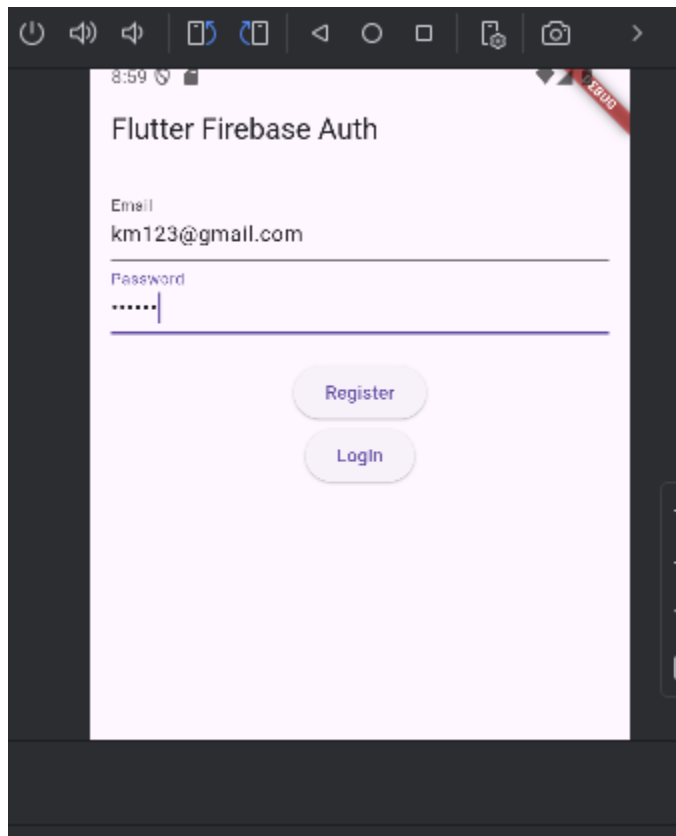
body: Center(
  child: Text("Welcome! You are logged in."),
),

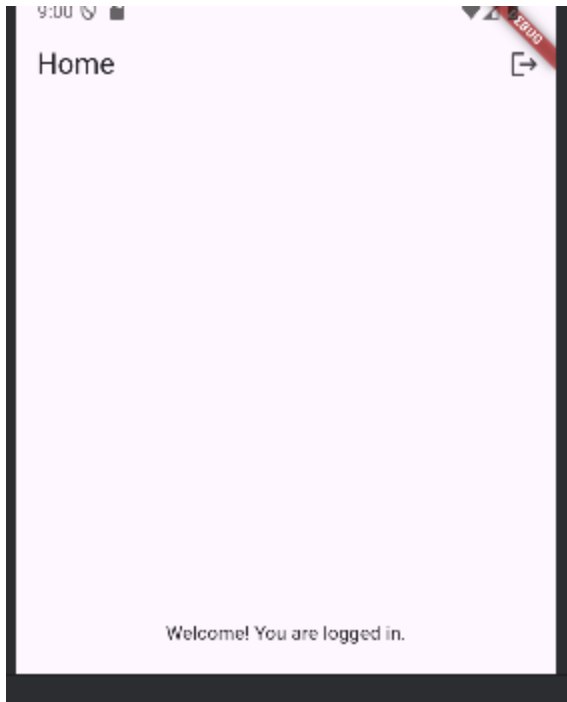
);

}

}
```

OUTPUT:-





RegisterMpl ▾

Authentication

[Users](#) | [Sign-in method](#) | [Templates](#) | [Usage](#) | [Settings](#) | [Extensions](#)

i 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

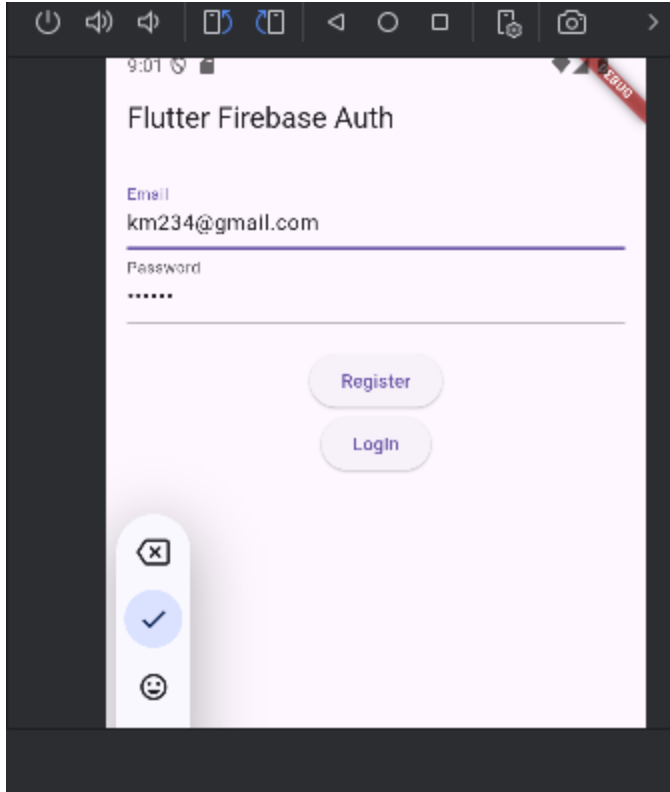
Add user

Identifier	Providers	Created <div></div>	Signed In	User UID
km123@gmail.com	<div></div>	Mar 4, 2025	Mar 4, 2025	vnhZiqv4uAga3JXkLZ0FTuQO...

Rows per page:

50

1 – 1 of 1



RegisterMpl ▾

Authentication

[Users](#) | [Sign-in method](#) | [Templates](#) | [Usage](#) | [Settings](#) | [Extensions](#)

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Add user ↻ ⋮

Identifier	Providers	Created ▾	Signed In	User UID
km234@gmail.com	✉	Mar 4, 2025	Mar 4, 2025	I6FHpczNVhTz8qSapUTXFzifL...
km123@gmail.com	✉	Mar 4, 2025	Mar 4, 2025	vnhZiqv4uAga3JXkLZ0FTuQO...

Rows per page: 50 ▾ 1 - 2 of 2 < >