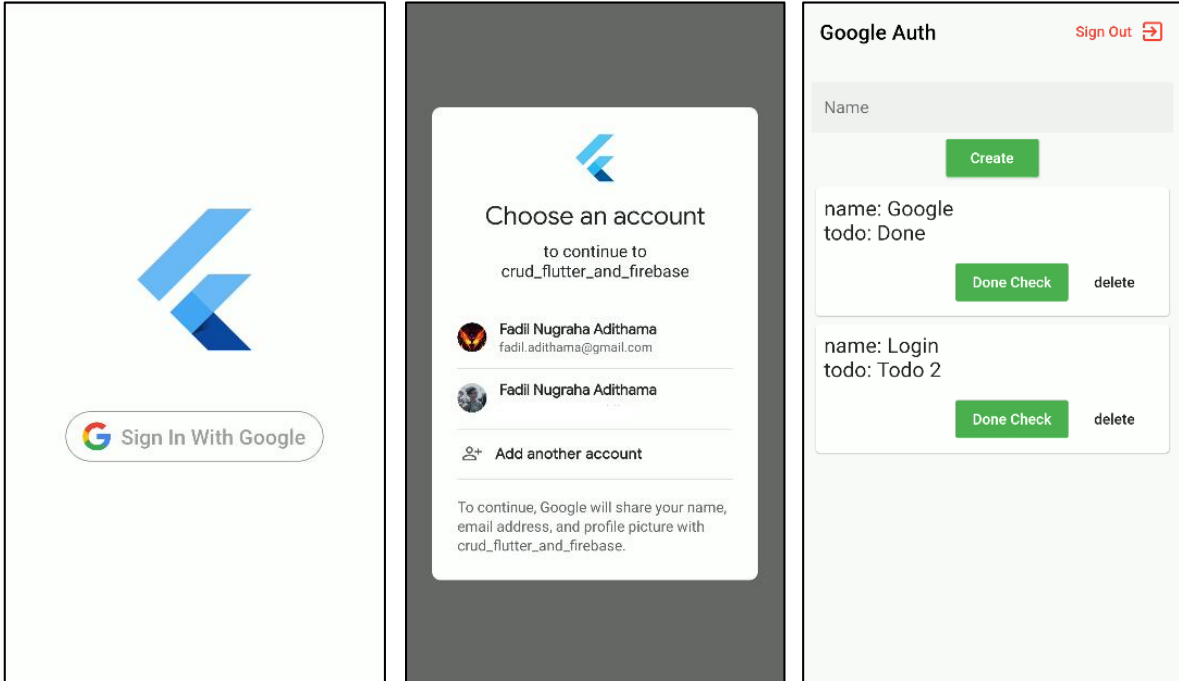
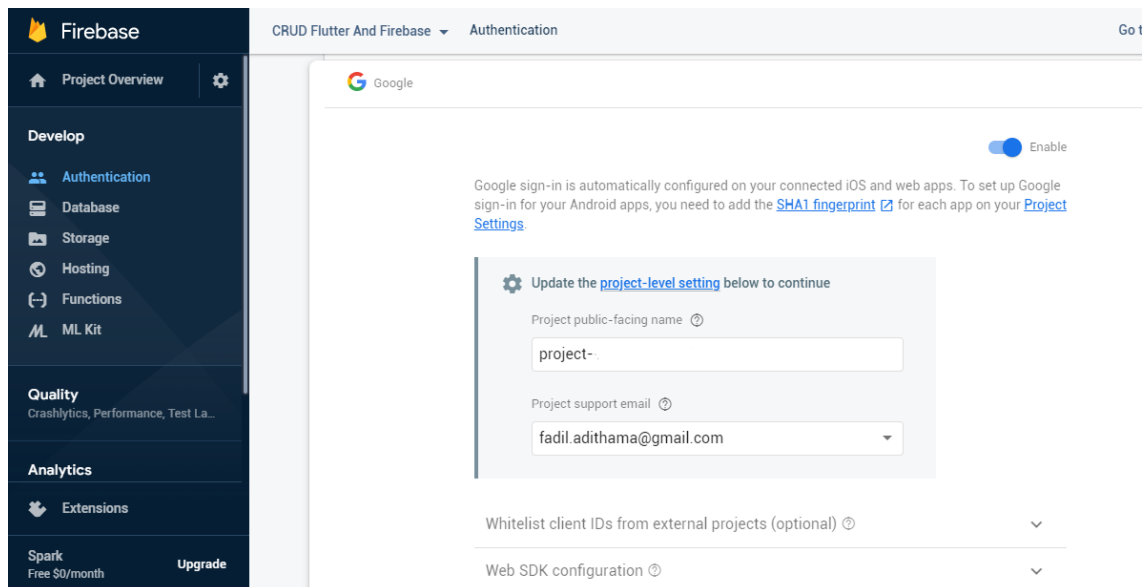


Google Authentication



1. Seperti pada modul sebelumnya, buat proyek baru pada Firebase Console dan integrasikan dengan proyek Flutter Anda
2. Pada menu **Authentication**, pilih **Sign-In Method**, pilih pada pilihan Google dan **switch** menjadi **Enable**.



- Masukkan 3 *dependencies* berikut pada **Pubspec.yaml**:
 - Cloud Firestore
 - Google Sign In
 - Firebase Auth
- Buat function untuk *sign in* dan *sign out*

```
lib > sign_in.dart > signInWithGoogle
1 import 'package:firebase_auth/firebase_auth.dart';
2 import 'package:google_sign_in/google_sign_in.dart';
3
4 final FirebaseAuth _auth = FirebaseAuth.instance;
5 final GoogleSignIn googleSignIn = GoogleSignIn();
6
7 Future<String> signInWithGoogle() async {
8   final GoogleSignInAccount googleSignInAccount = await googleSignIn.signIn();
9   final GoogleSignInAuthentication googleSignInAuthentication =
10     await googleSignInAccount.authentication;
11   final AuthCredential credential = GoogleAuthProvider.getCredential(
12     idToken: googleSignInAuthentication.idToken,
13     accessToken: googleSignInAuthentication.accessToken,
14   );
15   final AuthResult authResult = await _auth.signInWithCredential(credential);
16   final FirebaseUser user = authResult.user;
17
18   assert(!user.isAnonymous);
19   assert(user.getIdToken() != null);
20
21   final FirebaseUser currentUser = await _auth.currentUser();
22   assert(user.uid == currentUser.uid);
23
24   return 'Sign In Succeeded: $user';
25 }
26
27 void signOutGoogle() async {
28   await _auth.signOut();
29   await FirebaseAuth.instance.signOut();
30   await googleSignIn.disconnect();
31   print("Signed Out");
32 }
```

- Buat tampilan untuk login

```
lib > loginpage.dart > ...
1 import 'package:flutter/material.dart';
2 import './sign_in.dart';
3 import './home.dart';
4
5 class Loginpage extends StatefulWidget {
6   @override
7   _LoginpageState createState() => _LoginpageState();
8 }
9
10 class _LoginpageState extends State<Loginpage> {
11   @override
12   Widget build(BuildContext context) {
13     return Scaffold(
14       body: Container(
15         color: Colors.white,
16         child: Center(
17           child: Column(
18             mainAxisAlignment: MainAxisAlignment.max,
19             mainAxisAlignment: MainAxisAlignment.center,
20             children: <Widget>[
21               FlutterLogo(size: 150.0),
22               SizedBox(height: 50.0),
23               _signInButton(),
24             ], // <Widget>[]
25           ), // Column
26         ), // Center
27       ), // Container
28     ); // Scaffold
29   }
30
31   Widget _signInButton() {
32     return OutlineButton(
33       splashColor: Colors.grey,
34       onPressed: () {
35         signInWithGoogle().whenComplete(
36           () => Navigator.push(
37             context,
38             MaterialPageRoute(
39               builder: (context) => Homescreen(),
40             ), // MaterialPageRoute

```

```
lib > loginpage.dart > ...
38   MaterialPageRoute(
39     builder: (context) => Homescreen(),
40   ), // MaterialPageRoute
41   ),
42   );
43 },
44 shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(40)),
45 highlightElevation: 0,
46 borderSide: BorderSide(color: Colors.grey),
47 child: Padding(
48   padding: const EdgeInsets.symmetric(vertical: 10.0),
49   child: Row(
50     mainAxisAlignment: MainAxisAlignment.center,
51     mainAxisAlignment: MainAxisAlignment.min,
52     children: <Widget>[
53       Image.asset(
54         "assets/images/google_logo.png",
55         height: 27.0,
56       ), // Image.asset
57       Padding(
58         padding: const EdgeInsets.only(left: 10.0),
59         child: Text(
60           "Sign In With Google",
61           style: TextStyle(
62             fontSize: 20.0,
63             color: Colors.grey,
64           ), // TextStyle
65         ), // Text
66       ), // Padding
67     ], // <Widget>[]
68   ), // Row
69   ), // Padding
70 ); // OutlineButton
71 }
72 }
73 }
```

6. Pada tampilan *Homescreen* tambahkan tombol *sign out* (saya meletakkannya pada AppBar)

```
home.dart >  _HomescreenState

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      elevation: 0,
      backgroundColor: Colors.transparent,
      title: Text(
        "Google Auth",
        style: TextStyle(color: Colors.black),
      ), // Text
      automaticallyImplyLeading: false,
      actions: <Widget>[
        FlatButton(
          child: Row(
            children: <Widget>[
              Text(
                "Sign Out",
                style: TextStyle(color: Colors.red),
              ), // Text
              SizedBox(width: 7.0),
              Icon(
                Icons.exit_to_app,
                color: Colors.red,
              ), // Icon
            ], // <Widget>[]
          ), // Row
          onPressed: () {
            signOutGoogle();
            Navigator.push(
              context,
              MaterialPageRoute(builder: (context) => Loginpage()),
            );
          }, // FlatButton
        ), // <Widget>[]
      ], // AppBar
    ), // Scaffold
  );
}
```