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Experiment-4

Aim: To create an interactive Form using form widget

Theory:

Flutter Form Widget

The Form widget in Flutter provides a way to create and manage a group of related form elements. It helps with form validation, submission, and data storage. When using the Form widget, you typically also use TextFormField for text input and other form-related widgets.

TextFormFields

Use TextFormField widgets for text input fields within the form. These widgets handle user input, validation, and saving data.

Form Submission

Typically, a button triggers form submission. The onPressed callback of the button calls a function, which in turn validates and saves the form data.

Code:

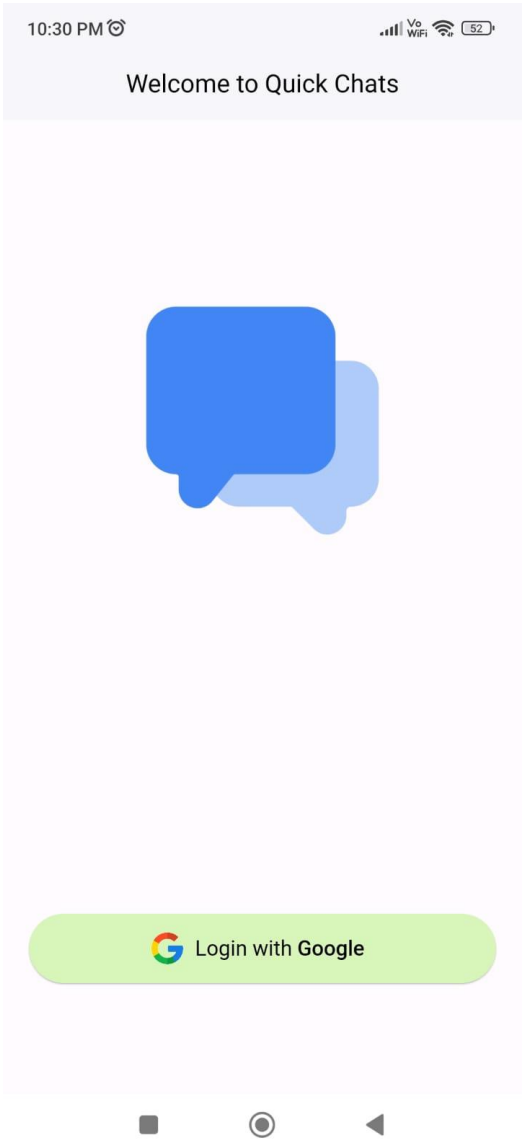
```
import 'dart:developer';
import 'dart:io';

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

class LoginScreen extends StatefulWidget {
  const LoginScreen({super.key});

  @override
  State<LoginScreen> createState() => _LoginScreenState();
}

class _LoginScreenState extends State<LoginScreen> {
  bool _isAnimate = false;
```

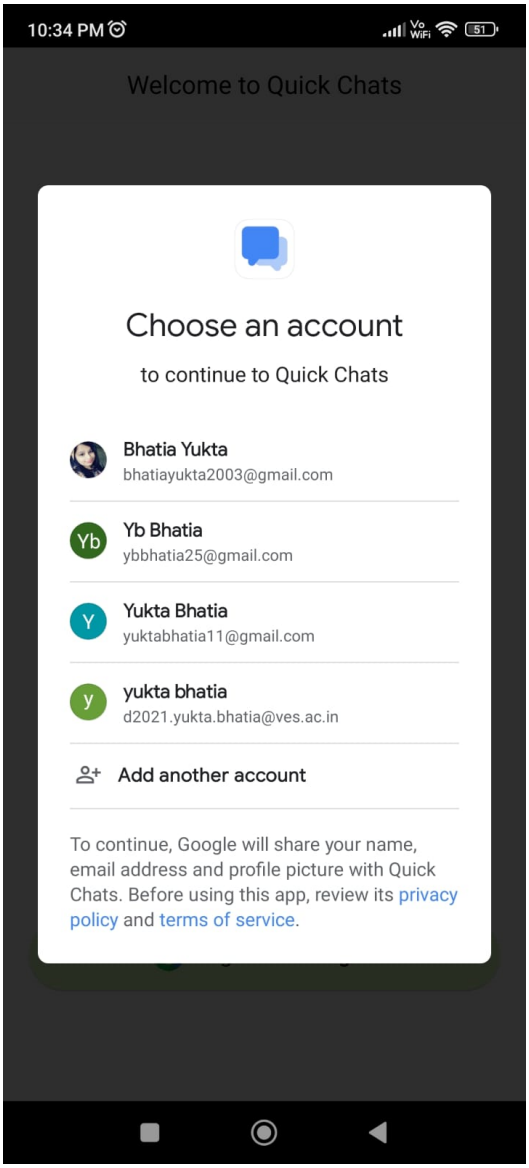
```
@override
void initState() {
  super.initState();

  Future.delayed(const Duration(milliseconds: 500), () {
    setState(() => _isAnimate = true);
  });
}

_handleGoogleBtnClick() {
  //for showing progress bar
  Dialogs.showProgressBar(context);

  _signInWithGoogle().then((user) async {
    //for hiding progress bar
    Navigator.pop(context);

    if (user != null) {
      log('\nUser: ${user.user}');
      log('\nUserAdditionalInfo: ${user.additionalUserInfo}');

      if ((await APIs.userExists())) {
        Navigator.pushReplacement(
            context, MaterialPageRoute(builder: (_) => const HomeScreen()));
      } else {
        await APIs.createUser().then((value) {
          Navigator.pushReplacement(
              context, MaterialPageRoute(builder: (_) => const HomeScreen()));
        });
      }
    }
  });
}

Future<UserCredential?> _signInWithGoogle() async {
  try {
    await InternetAddress.lookup('google.com');
    final GoogleSignInAccount? googleUser = await GoogleSignIn().signIn();

    // Obtain the auth details from the request
    final GoogleSignInAuthentication? googleAuth =
        await googleUser?.authentication;

    // Create a new credential
```

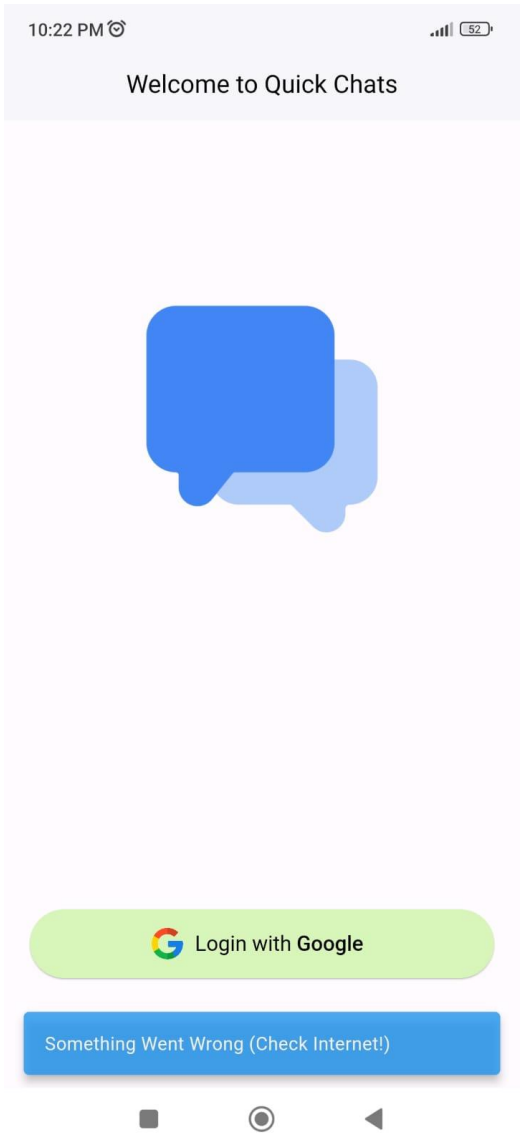
```
    final credential = GoogleAuthProvider.credential(
      accessToken: googleAuth?.accessToken,
      idToken: googleAuth?.idToken,
    );

    // Once signed in, return the UserCredential
    return await APIs.auth.signInWithCredential(credential);
  } catch (e) {
    log('\n_signInWithGoogle: $e');
    Dialogs.showSnackbar(context, 'Something Went Wrong (Check Internet!)');
    return null;
  }
}


@override
Widget build(BuildContext context) {
  //initializing media query (for getting device screen size)
  mq = MediaQuery.of(context).size;

  return Scaffold(
    //app bar
    appBar: AppBar(
      automaticallyImplyLeading: false,
      title: const Text('Welcome to Quick Chats'),
    ),

    //body
    body: Stack(children: [
      //app logo
      AnimatedPositioned(
          top: mq.height * .15,
          right: _isAnimate ? mq.width * .25 : -mq.width * .5,
          width: mq.width * .5,
          duration: const Duration(seconds: 1),
          child: Image.asset('images/icon.png')),

      //google login button
      Positioned(
          bottom: mq.height * .15,
          left: mq.width * .05,
          width: mq.width * .9,
          height: mq.height * .06,
          child: ElevatedButton.icon(
```

```
            style: ElevatedButton.styleFrom(
               backgroundColor: const Color.fromARGB(255, 223, 255, 255, 187),
               shape: const StadiumBorder(),
               elevation: 1),
            onPressed: () {
              _handleGoogleBtnClick();
            },

            //google icon
            icon: Image.asset('images/google.png', height: mq.height * .03),

            //login with google label
            label: RichText(
              text: const TextSpan(
                  style: TextStyle(color: Colors.black, fontSize: 16),
                  children: [
                    TextSpan(text: 'Login with '),
                    TextSpan(
                       text: 'Google',
                       style: TextStyle(fontWeight: FontWeight.w500)),
                  ]),
            ))),
      ]),
    );
  }
}
```

Output:


10:30 PM
Welcome to Quick Chats
Login with Google


10:34 PM
Welcome to Quick Chats
Choose an account
to continue to Quick Chats
Bhatia Yukta
bhatiayukta2003@gmail.com
Yb Bhatia
ybbhatia25@gmail.com
Yukta Bhatia
yuktabhatia11@gmail.com
yukta bhatia
d2021.yukta.bhatia@ves.ac.in
Add another account
To continue, Google will share your name, email address and profile picture with Quick Chats. Before using this app, review its privacy policy and terms of service.


10:22 PM
52
Welcome to Quick Chats
Login with Google
Something Went Wrong (Check Internet!)