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**Exp -04**

**Aim: To create an interactive Form using form widgets**

**Code:**

```
Welcome.dart
import 'package:demo2/login.dart';
import 'package:demo2/signup.dart';
import 'package:flutter/material.dart';

class Welcome extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          leading: IconButton(
            icon: Icon(Icons.arrow_back, color: Colors.white),
            onPressed: () => Navigator.of(context).pop(),
          ),
          title: Text('LOGIN'),
        ),
        body: Center(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: <Widget>[
              // replace with your logo url
              Container(
                margin: EdgeInsets.symmetric(horizontal: 10, vertical: 40),
                padding: EdgeInsets.all(10),
                height: 100, // Adjust the height as needed
                child: Center(
                  child: Image.asset("assets/mmt.png"),
                ),
              ),
            ],
          ),
        ),
      ),
    );
  }
}
```

```
,  
//Image.asset("assets/mmt.png"),  
Padding(  
padding: const EdgeInsets.symmetric(horizontal: 20),  
child: Text(  
'Rs. 500 in Your Wallet – Waiting To Be Grabbed! Just Login To Claim!',  
style: TextStyle(  
fontSize: 16,  
fontWeight: FontWeight.bold, // Makes the text bolder  
),  
),  
),  
),  
SizedBox(height: 20),  
Container(  
width: MediaQuery.of(context).size.width * 0.8,  
child: ElevatedButton(  
onPressed: () {  
    // Handle login with Facebook  
},  
style: ElevatedButton.styleFrom(  
primary: Colors.blue,  
shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),  
textStyle: TextStyle(fontSize: 16, fontWeight: FontWeight.bold),  
),  
  
child: Text('Login with Facebook',  
style: TextStyle(color: Colors.white),  
),  
),  
),  
),  
SizedBox(height: 5),  
Container(  
width: MediaQuery.of(context).size.width * 0.8,  
child: ElevatedButton(  
onPressed: () {  
    // Handle login with Google  
},  
  
style: ElevatedButton.styleFrom(  
primary: Colors.blue,
```

```
shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),  
textStyle: TextStyle(fontSize: 16, fontWeight: FontWeight.bold),  
),  
  
child: Text('Login with Google',  
    style: TextStyle(color: Colors.white)  
),  
),  
),  
SizedBox(height: 10),  
Row(  
    mainAxisAlignment: MainAxisAlignment.spaceEvenly, // Adjusts the spacing between  
the buttons  
children: <Widget>  
Expanded(  
    child: Padding(  
        padding: EdgeInsets.all(10),  
        child: ElevatedButton(  
            onPressed: () {  
                // Handle sign up  
                Navigator.push(  
                    context,  
                    MaterialPageRoute(builder: (context) => SignUp()), // Replace with your  
screen  
                );  
            },  
            style: ElevatedButton.styleFrom(  
                backgroundColor: Colors.redAccent,  
                shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),  
            ),  
            child: Text('SIGNUP', style: TextStyle(color: Colors.white)),  
        ),  
    ),  
    ),  
Expanded(  
    child: Padding(  
        padding: EdgeInsets.all(10),  
        child: ElevatedButton(  
            onPressed: () {
```

```

        // Handle login
        Navigator.push(
          context,
          MaterialPageRoute(builder: (context) => Login()), // Replace with your screen
        );
      },
      style: ElevatedButton.styleFrom(
        backgroundColor: Colors.green,
        shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),
      ),

      child: Text('LOGIN', style: TextStyle(color: Colors.white)),
    ),
  ),
],
),
],
),
);
}
}

```

Homepage.dart

```

import 'package:demo2/welcome.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

class HomePage extends StatelessWidget {
  const HomePage({Key? key}) : super(key: key);

  @override

```

```

Widget build(BuildContext context) {

  final user = FirebaseAuth.instance.currentUser;

  return Scaffold(

    appBar: AppBar(

      title: Text('HomePage'),
    ),
    body: SafeArea(

      child: Column(
        children: [
          Text('Hello ${user?.email}', style: TextStyle(fontSize: 40),),
          ElevatedButton(
            style: ElevatedButton.styleFrom(backgroundColor: Colors.green),
            //onPressed: () {
              //FirebaseAuth.instance.signOut();
            //},
            //child: Text(
              //'LogOut',
            //),
            onPressed: () async {
              try {
                // Attempt to sign out
                await FirebaseAuth.instance.signOut();

                // If successful, navigate to the next page
                Navigator.push(
                  context,
                  MaterialPageRoute(builder: (context) => Welcome()), // Replace with your screen
                );
              } catch (e) {
                // Handle sign-out error
                print(e);
              }
            },
            child: Text('LogOut'),
          ],
        ),
      ),
    ),
  );
}

```

```

    )
  ],
),

),
);
}
}

```

Login.dart

```

import 'package:demo2/homepage.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

class Login extends StatefulWidget {
  const Login({Key? key}) : super(key: key);

  @override
  State<Login> createState() => _LoginState();
}

class _LoginState extends State<Login> {

  final emailController = TextEditingController();
  final passwordController = TextEditingController();

  @override
  void dispose() {
    emailController.dispose();
    passwordController.dispose();
    super.dispose();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Firebase'),
      ),
    ),
  ),
}

```

```

body: SafeArea(
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.center,
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      Center(
        child: Container(
          decoration: BoxDecoration(
            color: Colors.transparent,
            border: Border.all(
              color: Colors.black,
            ),
            borderRadius: BorderRadius.circular(15),
          ),
          width: MediaQuery.of(context).size.width * .8,
          child: TextField(
            controller: emailController,
            style: const TextStyle(
              fontSize: 30,
              color: Colors.black,
              fontWeight: FontWeight.bold,
            ),
            decoration: InputDecoration(
              hintText: 'Email',
              hintStyle: TextStyle(color: Colors.black.withOpacity(0.5), fontSize: 25),
              border: InputBorder.none,
            ),
          ),
        ),
      ),
      SizedBox(
        height: 25,
      ),
      Center(
        child: Container(
          decoration: BoxDecoration(
            color: Colors.transparent,
            border: Border.all(
              color: Colors.black,
            ),
          ),
        ),
      ),
    ],
  ),
)

```

```

        borderRadius: BorderRadius.circular(15),
      ),
      width: MediaQuery.of(context).size.width * .8,
      child: TextField(
        controller: passwordController,
        obscureText: true,
        style: const TextStyle(
          fontSize: 30,
          color: Colors.black,
          fontWeight: FontWeight.bold,
        ),
        decoration: InputDecoration(
          hintText: passwordController.text.isEmpty ? 'Password' : null,
          hintStyle: TextStyle(color: Colors.black.withOpacity(0.5), fontSize: 25),
          border: InputBorder.none,
        ),
      ),
    ),
  ),
  Padding(
    padding: EdgeInsets.all(10),

    child: ElevatedButton(

      style: ElevatedButton.styleFrom(
        shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),
        backgroundColor: Colors.green
      ),
      onPressed: () {
        //FirebaseAuth.instance.signInWithEmailAndPassword(email:
emailController.text.trim(), password: passwordController.text.trim());
        //},
        //child: Text('Login')
        onPressed: () async {
          try {
            // Attempt to sign in
            await FirebaseAuth.instance.signInWithEmailAndPassword(
              email: emailController.text.trim(),
              password: passwordController.text.trim()
            );

```



```

        // If successful, navigate to the next page
        Navigator.push(
          context,
          MaterialPageRoute(builder: (context) => HomePage()), // Replace with your screen
        );
      } catch (e) {
        // Handle sign-in error
        print(e);
      }
    },
    child: Text('Login'),

  ),
),
],
),
),
);
}
}

```

Signup.dart

```

import 'package:demo2/homepage.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

class SignUp extends StatefulWidget {
  const SignUp({Key? key}) : super(key: key);

  @override
  State<SignUp> createState() => _SignUpState();
}

class _SignUpState extends State<SignUp> {

  final emailController = TextEditingController();
  final passwordController = TextEditingController();

```

```

@override
void dispose() {
  emailController.dispose();
  passwordController.dispose();
  super.dispose();
}
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Firebase'),
    ),
    body: SafeArea(
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.center,
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Center(
            child: Container(
              decoration: BoxDecoration(
                color: Colors.transparent,
                border: Border.all(
                  color: Colors.black,
                ),
                borderRadius: BorderRadius.circular(15),
              ),
              width: MediaQuery.of(context).size.width * .8,
              child: TextField(
                controller: emailController,
                style: const TextStyle(
                  fontSize: 30,
                  color: Colors.black,
                  fontWeight: FontWeight.bold,
                ),
                decoration: InputDecoration(
                  hintText: 'Email',
                  hintStyle: TextStyle(color: Colors.black.withOpacity(0.5), fontSize: 25),
                  border: InputBorder.none,
                ),
              ),
            ),
          ),
        ],
      ),
    ),
  );
}

```

```
),  
    ),  
  ),  
),  
SizedBox(  
  height: 25,  
),  
Center(  
  child: Container(  
    decoration: BoxDecoration(  
      color: Colors.transparent,  
      border: Border.all(  
        color: Colors.black,  
      ),  
      borderRadius: BorderRadius.circular(15),  
    ),  
    width: MediaQuery.of(context).size.width * .8,  
    child: TextField(  
      controller: passwordController,  
      obscureText: true,  
      style: const TextStyle(  
        fontSize: 30,  
        color: Colors.black,  
        fontWeight: FontWeight.bold,  
      ),  
      decoration: InputDecoration(  
        hintText: passwordController.text.isEmpty ? 'Password' : null,  
        hintStyle: TextStyle(color: Colors.black.withOpacity(0.5), fontSize: 25),  
        border: InputBorder.none,  
      ),  
    ),  
  ),  
),  
Padding(  
  padding: EdgeInsets.all(10),  
  
  child: ElevatedButton(  
    style: ElevatedButton.styleFrom(  
      backgroundColor: Colors.blue  
    ),
```

```

        //onPressed: () {
            //FirebaseAuth.instance.createUserWithEmailAndPassword(email:
emailController.text.trim(), password: passwordController.text.trim());
            //}, child: Text('signUp'))
        onPressed: () async {
            try {
                // Attempt to create a user
                await FirebaseAuth.instance.createUserWithEmailAndPassword(
                    email: emailController.text.trim(),
                    password: passwordController.text.trim()
                );

                // If successful, navigate to the next page
                Navigator.push(
                    context,
                    MaterialPageRoute(builder: (context) => HomePage()), // Replace with your screen
                );
            } catch (e) {
                // Handle sign-up error
                print(e);
            }
        },
        child: Text('signUp'),
    ),
),
),
);
}
}

```

Output:





← HomePage

Hello jiya@m.com

Logout





