

## **Experiment No : 05**

**Aim :** To create an interactive sign in Form using form widget.

**Theory :**

### **Form Widget :**

In Flutter, a form widget is a special widget that allows you to collect user input and validate it. A form widget can contain multiple form fields, such as text input fields, checkboxes, radio buttons, and dropdown menus.

The Form widget provides several important features, including:

1. **Validation:** You can validate user input by defining validators for each form field. These validators can check if the input is valid, such as if the user entered a valid email address or if the input is required.
2. **Saving Form Data:** Once the user submits the form, the form widget will automatically collect all the data entered by the user and store it in a map.
3. **Submitting Form Data:** The Form widget also provides a built-in way to submit the form data to a server or other backend system.

### **TextFormField :**

In Flutter, a TextFormField widget is a type of form field widget that allows users to enter text input. TextFormField is a stateful widget that provides built-in features like input validation, error messages, and text formatting options.

To use a TextFormField widget, you need to provide it with a TextEditingController and define a validator function. The controller is used to control the text input in the text field and the validator is used to validate the input.

**Validation of form:**

In Flutter, validation of a form refers to the process of checking user input to ensure that it meets certain requirements or constraints. For example, you might want to ensure that a user enters a valid email address, or that a required field is not left blank.

## Code :

### Main.dart

```
import 'package:flutter/material.dart';
import 'package:login_signup_page/login.dart';
import 'package:login_signup_page/register.dart';
```

```
void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false,
    home: MyLogin(),
    routes: {
      'register': (context) => MyRegister(),

      'login': (context) => MyLogin(),

    },
  ));
}
```

### Login.dart

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

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

  @override
  _MyLoginState createState() => _MyLoginState();
}

class _MyLoginState extends State<MyLogin> {
  @override
  Widget build(BuildContext context) {
    return Container(
      decoration: BoxDecoration(
        image: DecorationImage(
          image: AssetImage('assets/login.png'), fit: BoxFit.cover),
        ),
      child: Scaffold(
```

```

backgroundColor: Colors.transparent,
body: Stack(
  children: [
    Container(),
    Container(
      padding: EdgeInsets.only(left: 35, top: 130),
      child: Text(
        'Welcome\nBack',
        style: TextStyle(color: Colors.white, fontSize: 33),
      ),
    ),
  ],
  SingleChildScrollView(
    child: Container(
      padding: EdgeInsets.only(
        top: MediaQuery.of(context).size.height * 0.5),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Container(
            margin: EdgeInsets.only(left: 35, right: 35),
            child: Column(
              children: [
                TextField(
                  style: TextStyle(color: Colors.black),
                  decoration: InputDecoration(
                    fillColor: Colors.grey.shade100,
                    filled: true,
                    hintText: "Email",
                    border: OutlineInputBorder(
                      borderRadius: BorderRadius.circular(10),
                    ),
                  ),
                SizedBox(
                  height: 30,
                ),
                TextField(
                  style: TextStyle(),
                  obscureText: true,
                  decoration: InputDecoration(
                    fillColor: Colors.grey.shade100,
                    filled: true,

```

```

hintText: "Password",
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10),
)),
),
SizedBox(
height: 40,
),
Row(
mainAxisAlignment: MainAxisAlignment.spaceBetween,
children: [
Text(
'Sign in',
style: TextStyle(
fontSize: 27, fontWeight: FontWeight.w700),
),
CircleAvatar(
radius: 30,
backgroundColor: Color(0xff4c505b),
child: IconButton(
color: Colors.white,
onPressed: () {},
icon: Icon(
Icons.arrow_forward,
)),
)
],
),
SizedBox(
height: 40,
),
Row(
mainAxisAlignment: MainAxisAlignment.spaceBetween,
children: [
TextButton(
onPressed: () {
Navigator.pushNamed(context, 'register');
},
child: Text(
'Sign Up',
textAlign: TextAlign.left,

```



```
}
```

```
class _MyRegisterState extends State<MyRegister> {  
  @override  
  Widget build(BuildContext context) {  
    return Container(  
      decoration: BoxDecoration(  
        image: DecorationImage(  
          image: AssetImage('assets/register.png'), fit: BoxFit.cover),  
        ),  
      child: Scaffold(  
        backgroundColor: Colors.transparent,  
        appBar: AppBar(  
          backgroundColor: Colors.transparent,  
          elevation: 0,  
        ),  
        body: Stack(  
          children: [  
            Container(  
              padding: EdgeInsets.only(left: 35, top: 30),  
              child: Text(  
                'Create\nAccount',  
                style: TextStyle(color: Colors.white, fontSize: 33),  
              ),  
            ),  
            SingleChildScrollView(  
              child: Container(  
                padding: EdgeInsets.only(  
                  top: MediaQuery.of(context).size.height * 0.28),  
                child: Column(  
                  crossAxisAlignment: CrossAxisAlignment.start,  
                  children: [  
                    Container(  
                      margin: EdgeInsets.only(left: 35, right: 35),  
                      child: Column(  
                        children: [  
                          TextField(  
                            style: TextStyle(color: Colors.white),  
                            decoration: InputDecoration(  
                              enabledBorder: OutlineInputBorder(  
                                borderRadius: BorderRadius.circular(10),
```

```
borderSide: BorderSide(
  color: Colors.white,
),
),
focusedBorder: OutlineInputBorder(
  borderRadius: BorderRadius.circular(10),
  borderSide: BorderSide(
    color: Colors.black,
  ),
),
hintText: "Name",
hintStyle: TextStyle(color: Colors.white),
border: OutlineInputBorder(
  borderRadius: BorderRadius.circular(10),
)),
),
SizedBox(
  height: 30,
),
TextField(
  style: TextStyle(color: Colors.white),
  decoration: InputDecoration(
    enabledBorder: OutlineInputBorder(
      borderRadius: BorderRadius.circular(10),
      borderSide: BorderSide(
        color: Colors.white,
      ),
    ),
    focusedBorder: OutlineInputBorder(
      borderRadius: BorderRadius.circular(10),
      borderSide: BorderSide(
        color: Colors.black,
      ),
    ),
    hintText: "Email",
    hintStyle: TextStyle(color: Colors.white),
    border: OutlineInputBorder(
      borderRadius: BorderRadius.circular(10),
    )),
  ),
SizedBox(
```

```
height: 30,
),
TextField(
style: TextStyle(color: Colors.white),
obscureText: true,
decoration: InputDecoration(
enabledBorder: OutlineInputBorder(
borderRadius: BorderRadius.circular(10),
borderSide: BorderSide(
color: Colors.white,
),
),
focusedBorder: OutlineInputBorder(
borderRadius: BorderRadius.circular(10),
borderSide: BorderSide(
color: Colors.black,
),
),
hintText: "Password",
hintStyle: TextStyle(color: Colors.white),
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10),
)),
),
SizedBox(
height: 40,
),
Row(
mainAxisAlignment: MainAxisAlignment.spaceBetween,
children: [
Text(
'Sign Up',
style: TextStyle(
color: Colors.white,
fontSize: 27,
fontWeight: FontWeight.w700),
),
CircleAvatar(
radius: 30,
backgroundColor: Color(0xff4c505b),
child: IconButton(
```



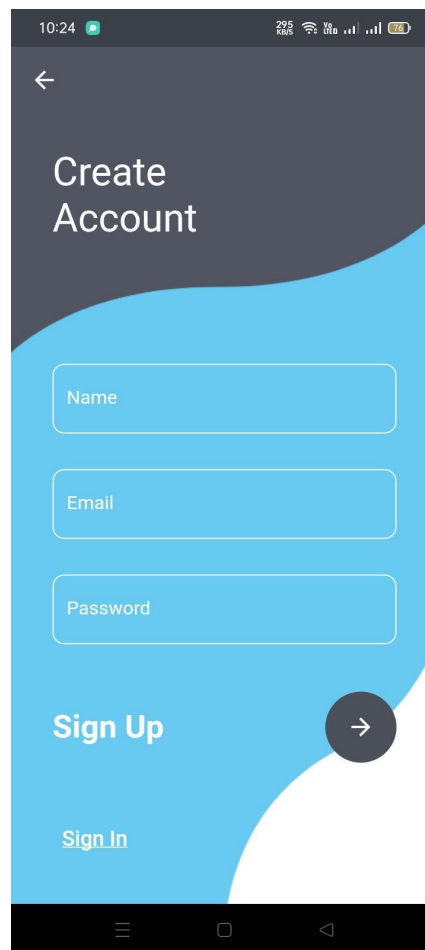
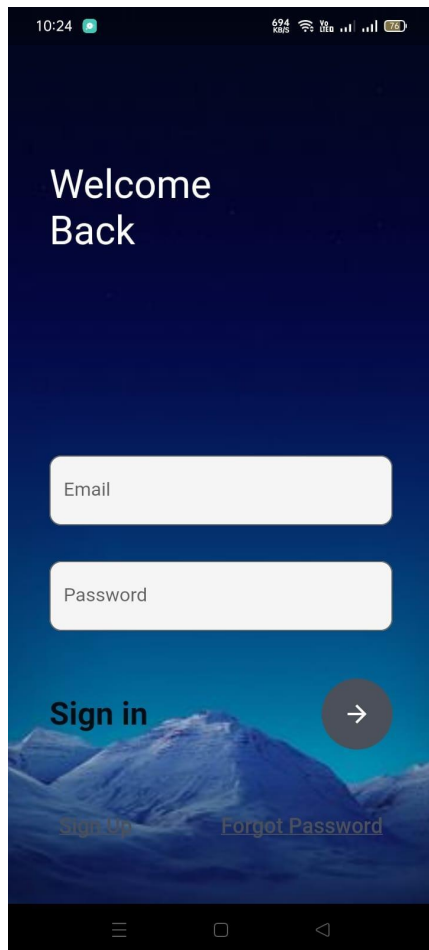
```

        color: Colors.white,
        onPressed: () {},
        icon: Icon(
            Icons.arrow_forward,
        )),
    ),
],
),
    SizedBox(
        height: 40,
    ),
    Row(
        mainAxisAlignment: MainAxisAlignment.spaceBetween,
        children: [
            TextButton(
                onPressed: () {
                    Navigator.pushNamed(context, 'login');
                },
                child: Text(
                    'Sign In',
                    textAlign: TextAlign.left,
                    style: TextStyle(
                        decoration: TextDecoration.underline,
                        color: Colors.white,
                        fontSize: 18),
                ),
                style: ButtonStyle(),
            ),
        ],
    ),
],
),
),
],
),
),
);

```

```
}  
}
```

**Output :**



**Conclusion :** Therefore we have successfully created an interactive sign in Form using form widget.