

EXPERIMENT - 04

AIM : To create an interactive Form using a form widget.

THEORY :

Flutter provides a Form widget to create a form. The form widget acts as a container, which allows us to group and validate the multiple form fields. When you create a form, it is necessary to provide the GlobalKey. This key uniquely identifies the form and allows you to do any validation in the form fields.

The form widget uses child widget TextFormField to provide the users to enter the text field. This widget renders a material design text field and also allows us to display validation errors when they occur

Some Properties of Form Widget

- **key:** A GlobalKey that uniquely identifies the Form. You can use this key to interact with the form, such as validating, resetting, or saving its state.
- **child:** The child widget that contains the form fields. Typically, this is a Column, ListView, or another widget that allows you to arrange the form fields vertically.
- **autovalidateMode:** An enum that specifies when the form should automatically validate its fields.

Some Methods of Form Widget

- **validate():** This method is used to trigger the validation of all the form fields within the Form. It returns true if all fields are valid, otherwise false. You can use it to check the overall validity of the form before submitting it.
- **save():** This method is used to save the current values of all form fields. It invokes the onSave callback for each field. Typically, this method is called after validation succeeds.
- **reset():** Resets the form to its initial state, clearing any user-entered data.
- **currentState:** A getter that returns the current FormState associated **with the Form.**

CODE :

```
import 'package:flutter/material.dart';  
  
void main() => runApp(const MyApp());  
  
class MyApp extends StatelessWidget {  
  const MyApp({Key? key}) : super(key: key);  
  
  static const String _title = 'SignUp Form';  
  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: _title,
```

```

home: Scaffold(
  appBar: AppBar(
    elevation: 0,
    backgroundColor: Colors.blue[300],
    centerTitle: true,
    title: Text(
      'SignUp',
      style: TextStyle(
        color: Colors.white,
        fontFamily: 'Roboto',
        fontSize: 24,
      ),
    ),
  ),
  body: Stack(
    children: [
      // Background Image with Opacity
      Positioned.fill(
        child: Opacity(
          opacity: 0.5, // Adjust the opacity as
needed
          child: Image.asset(
            'assets/bg2.png', // Path to your
background image
            fit: BoxFit.cover,
          ),
        ),
      ),
      Padding(
        padding: const EdgeInsets.all(10),
        child: ListView(
          children: <Widget>[
            Container(
              width: double.infinity,
              alignment: FractionalOffset(0, 0),
              padding: const EdgeInsets.all(10),
              child: Column(
                children: [
                  TextButton(
                    onPressed: (() {}),
                    style: TextButton.styleFrom(
                      backgroundColor:
Colors.white, // Set background color to white
                      padding: EdgeInsets.all(10), //
Adjust padding as needed
                    ),
                    child: Row(

```

```

children: [
  Image.asset(
    'assets/google_logo.png', //
Path to your Google logo
    width: 40,
    height: 35,
    // Adjust width and height as
needed
  ),
  SizedBox(
    width: 20,
  ),
  Text(
    'Continue with Google',
    style: TextStyle(
      color: Colors.black, //
Change the text color to blue
      fontFamily: 'Roboto',
      fontSize: 20,
    ),
  ),
],
),
],
),
),
Container(
  alignment: Alignment.center,
  padding: const EdgeInsets.all(10),
  child: const Text(
    "",
    style: TextStyle(fontSize: 20, color:
Colors.black),
  ),
),
Container(
  padding: const EdgeInsets.all(10),
  child: TextField(
    style: TextStyle(color:
Colors.white),
    decoration: const InputDecoration(
      border: OutlineInputBorder(),
      labelText: 'Email',
      labelStyle: TextStyle(color:
Colors.white),
    ),

```

```

    ),
  ),
  Container(
    padding: const EdgeInsets.all(10),
    child: TextField(
      style: TextStyle(color:
Colors.white),
      obscureText: true,
      decoration: const InputDecoration(
        border: OutlineInputBorder(),
        labelText: 'Password',
        labelStyle: TextStyle(color:
Colors.white),
      ),
    ),
  ),
  TextButton(
    onPressed: () {
      //forgot password screen
    },
    child: const Text(
      'Forgot Password',
      style: TextStyle(color:
Colors.white),
    ),
  ),
  Container(
    height: 45,
    padding: const
EdgeInsets.fromLTRB(10, 0, 10, 0),
    child: ElevatedButton(
      style: ElevatedButton.styleFrom(
        primary: Colors.white, // Set the
background color to blue
      ),
      child: const Text('Login'),

```

```

      onPressed: () {},
    ),
  ),
  Row(
    children: const <Widget>[
      Text(
        'Do not have an account?',
        style: TextStyle(color:
Colors.white),
      ),
    ],
    mainAxisAlignment:
MainAxisAlignment.center,
  ),
  Container(
    height: 45,
    padding: const
EdgeInsets.fromLTRB(10, 0, 10, 0),
    child: ElevatedButton(
      style: ElevatedButton.styleFrom(
        primary: Colors.white, // Set the
background color to blue
      ),
      child: const Text('Sign Up'),
      onPressed: () {},
    ),
  ),
],
),
),
);
}
}

```

OUTPUT :

SignUp Form

localhost:59905

SignUp

Continue with Google

Email

Password

Forgot Password

Login

Do not have an account?

Sign Up

Trophy and stars graphic