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D15A/57

Experiment - 3

Aim:To create an interactive form using widget.
Theory:
The Form widget in Flutter is a fundamental widget for building forms. It provides a way to group multiple form fields together, perform validation on those fields, and manage their state. In this article, we are going to implement the Form widget and explore some properties and Methods of it. A sample video is given below to get an idea about what we are going to do in this article.

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 onSaved 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:
SignupPage.dart
import 'package:flutter/material.dart';

class SignupPage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: Text('Sign Up'),
    backgroundColor: Colors.white,

```
      centerTitle: true,
    ),
    body: Center(
     child: Column(
       mainAxisAlignment: MainAxisAlignment.center,
       children: [
         // Ajio logo (replace with your image path)
         Image.asset('assets/ajio_logo.png', height: 100.0, width: 100.0),
         SizedBox(height: 20.0),

         // Username field with padding
         Padding(
          padding: const EdgeInsets.symmetric(horizontal: 20.0),
          child: TextField(
            decoration: InputDecoration(
              hintText: 'Enter your Username',
              enabledBorder: UnderlineInputBorder(
                borderSide: BorderSide(color: Colors.black),
              ),
              focusedBorder: UnderlineInputBorder(
                borderSide: BorderSide(color: Colors.black),
              ),
            ),
          ),
         ),
         SizedBox(height: 10.0),

         // Email field with padding
         Padding(
          padding: const EdgeInsets.symmetric(horizontal: 20.0),
          child: TextField(
            decoration: InputDecoration(
              hintText: 'Enter your Email',
              enabledBorder: UnderlineInputBorder(
                borderSide: BorderSide(color: Colors.black),
              ),
              focusedBorder: UnderlineInputBorder(
                borderSide: BorderSide(color: Colors.black),
              ),
            ),
          ),
         ),
         SizedBox(height: 10.0),
```

```dart
// Password field with padding
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 20.0),
  child: TextField(
    obscureText: true,
    decoration: InputDecoration(
      hintText: 'Enter your Password',
      enabledBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.grey),
      ),
      focusedBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.grey),
      ),
    ),
  ),
),
SizedBox(height: 20.0),

// Signup button with gradient background and padding
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 20.0),
  child: ElevatedButton(
    onPressed: () {
      // Handle signup attempt (e.g., register with backend)
      print('Signing up...');
    },
    style: ButtonStyle(
      backgroundColor: MaterialStateProperty.all<Color>(
        Colors.black,
      ),
      overlayColor: MaterialStateProperty.all<Color>(
        Colors.black,
      ),
      shape: MaterialStateProperty.all<RoundedRectangleBorder>(
        RoundedRectangleBorder(
          borderRadius: BorderRadius.circular(5.0),
        ),
      ),
    ),
    child: Container(
      width: double.infinity,
      padding: EdgeInsets.symmetric(vertical: 16.0), // Add padding to the button
      decoration: BoxDecoration(
        gradient: LinearGradient(
```

```dart
                colors: [Colors.black, Colors.black],
                begin: Alignment.centerLeft,
                end: Alignment.centerRight,
              ),
            ),
            child: Center(
              child: Text(
                'Sign Up',
                style: TextStyle(
                  color: Colors.white,
                  fontSize: 16.0,
                ),
              ),
            ),
          ),
        ),
      ),
    ],
  ),
),
);
}
}
```

LoginPage.dart

```dart
import 'package:flutter/material.dart';
import 'SignupPage.dart'; // Import the SignupPage.dart file

class LoginPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(
          'Log In',
          style: TextStyle(color: Colors.black), // Set the title color to black
        ),
        backgroundColor: Colors.white,
        centerTitle: true,
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            // Ajio logo (replace with your image path)
```

```
Image.asset('assets/ajio_logo.png', height: 100.0, width: 100.0),
SizedBox(height: 20.0),

// Email field
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 20.0),
  child: TextField(
    decoration: InputDecoration(
      hintText: 'Enter your Email or Username',
      enabledBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.black),
      ),
      focusedBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.black),
      ),
    ),
  ),
),
SizedBox(height: 10.0),

// Password field
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 20.0),
  child: TextField(
    obscureText: true,
    decoration: InputDecoration(
      hintText: 'Enter your Password',
      enabledBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.grey),
      ),
      focusedBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.grey),
      ),
    ),
  ),
),
SizedBox(height: 10.0),

// Login button with increased padding
Padding(
  padding: const EdgeInsets.symmetric(horizontal: 20.0),
  child: ElevatedButton(
    onPressed: () {
      // Handle login attempt (e.g., authenticate with backend)
```

```dart
        print('Logging in...');
      },
      style: ButtonStyle(
        backgroundColor: MaterialStateProperty.all<Color>(
          Colors.black,
        ),
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
          RoundedRectangleBorder(
            borderRadius: BorderRadius.circular(5.0),
          ),
        ),
      ),
      child: Container(
        width: double.infinity,
        padding: EdgeInsets.symmetric(vertical: 16.0), // Increased padding
        child: Center(
          child: Text(
            'Log In',
            style: TextStyle(
              color: Colors.white,
              fontSize: 16.0,
            ),
          ),
        ),
      ),
    ),
  ),
),
SizedBox(height: 20.0),

// New user link (Ajio-style button)
ElevatedButton(
  onPressed: () {
    // Navigate to the SignupPage when the button is clicked
    Navigator.push(
      context,
      MaterialPageRoute(
        builder: (context) => SignupPage(),
      ),
    );
  },
  style: ButtonStyle(
    backgroundColor: MaterialStateProperty.all<Color>(
      Colors.white,
    ),
```

```dart
            shape: MaterialStateProperty.all<RoundedRectangleBorder>(
              RoundedRectangleBorder(
                borderRadius: BorderRadius.circular(5.0),
                side: BorderSide(color: Colors.black),
              ),
            ),
          ),
          child: Text(
            'New to Ajio? Sign Up',
            style: TextStyle(
              color: Colors.black,
              fontSize: 14.0,
            ),
          ),
        ),
      ],
    ),
  ),
);
}
}
```

AJIO

Enter your Email or Username

Enter your Password

Log In

New to Ajio? Sign Up

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AJIO

snehars

sneha@gamil.com

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Sign Up

snehars

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Log In

New to Ajio? Sign Up

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