Experiment No. 4

Aim: To create an interactive Form using form widget

Theory:

In Flutter, the Form widget plays a vital role in facilitating the creation of interactive user input forms. Acting as a container, it allows developers to group multiple form fields together, manage form state, perform validation, and handle data submission. When a form is submitted, the Form widget triggers a callback function called onFormSubmitted, enabling developers to process the submitted data accordingly.

TextFormField is a versatile widget commonly used within forms to capture textual input from users. It offers a range of options for text input, including validation, input formatting, and the ability to obscure text, such as for password fields. Developers can apply validators like required, minLength, maxLength, and email to ensure the validity of user input.

DropdownButtonFormField, another form field widget, presents users with a dropdown menu of items to choose from. It's particularly useful when users need to select from a predefined list of options. Developers can specify an initial value, define the items in the dropdown menu, and handle the user's selection using the onChanged callback.

For capturing boolean and single-choice input, Flutter provides CheckboxListTile and RadioListTile widgets. CheckboxListTile presents a checkbox that users can check or uncheck, while RadioListTile offers a group of radio buttons for selecting a single option among many. Form validation is crucial to ensure that user input meets specific criteria before it's accepted as valid. In Flutter, developers implement form validation by providing a validator function for each form field. This function evaluates the current value of the field and returns an error message if the value fails to meet the criteria, enabling the form to display error messages and guide users in correcting their input.

After users have completed filling out the form, they typically submit it to perform an action, such as saving data or sending it to a server. Flutter developers handle form submission by providing an onSubmit callback function to the Form widget. This function is triggered when the form is submitted, allowing developers to access the current values of the form fields and proceed with the necessary actions, such as data processing or navigation.

Code:

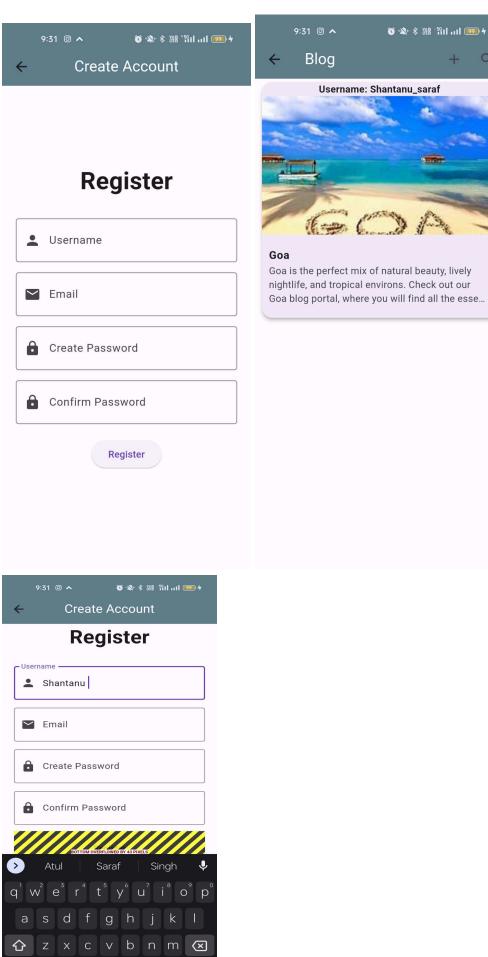
```
import 'package:flutter/material.dart';
import 'package:bloggtrial/components/round_button.dart';
import 'package:bloggtrial/sceens/blog_page.dart'; // Import your destination
screen

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

  @override
  State<RegisterScreen> createState() => _RegisterScreenState();
}
```

```
@override
Widget build(BuildContext context) {
  return Scaffold(
     centerTitle: true,
    body: Padding(
      child: Column (
        children: [
          const Text(
            style: TextStyle(fontWeight: FontWeight.bold, fontSize: 35),
          Padding (
            child: Column(
              children: [
                TextFormField(
                  keyboardType: TextInputType.text,
                TextFormField(
                  keyboardType: TextInputType.emailAddress,
                SizedBox (height: 15),
                TextFormField(
                  obscureText: true,
```

```
TextFormField(
 decoration: const InputDecoration(
   border: OutlineInputBorder(),
 onPressed: () {
     MaterialPageRoute(builder: (context) => BlogPage()),
```

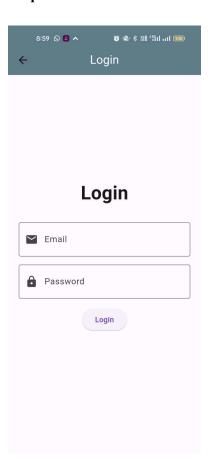


③

2.Login Form:

```
import 'package:bloggtrial/sceens/blog page.dart';
import 'package:flutter/material.dart';
class LoginScreen extends StatefulWidget {
class LoginScreenState extends State<LoginScreen> {
Widget build(BuildContext context) {
      child: Column (
        crossAxisAlignment: CrossAxisAlignment.center,
        children: [
             child: Column(
              children: [
                TextFormField(
                   keyboardType: TextInputType.emailAddress,
                  padding: const EdgeInsets.symmetric(vertical: 15),
                  child: TextFormField(
                     keyboardType: TextInputType.visiblePassword,
                      prefixIcon: Icon(Icons.lock),
```

Output:



Conclusion:

I have successfully created an interactive Form using form widget in Flutter.