Experiment - 4

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Aim: To create an interactive Form using form widget

Theory:

In Flutter, forms are essential for capturing user input and interacting with various widgets. Forms help in validation, submission, and overall management of user data input. They are typically composed of form fields, which are widgets that allow users to enter data, and often include buttons for submitting or resetting the form.

1. Form Widget: The Form widget is the container for form elements. It maintains the form state, which includes validation, error messages, and values of the form fields.
2. Form Field Widget: Form fields represent input fields like text fields, checkboxes, radio buttons, etc. They are managed by the Form widget and handle validation and state changes internally.
3. Validation: Forms typically include validation logic to ensure that the data entered by the user is correct. Flutter provides built-in validation mechanisms and allows you to define custom validators.
4. Handling Form Submission: Once the user fills out the form and submits it, you need to handle the submitted data. This can involve processing the data, performing further actions, or sending it to a server.

Syntax:

```
Form(
  key: _formKey, // GlobalKey<FormState>
  autovalidateMode: AutovalidateMode.onUserInteraction,
  child: Column(
    children: <Widget>[
      // Form fields go here
    ],
  ),
)
```

Widget and Properties:

In-built Phone icon, telegram logo image are used.

Code and Output:

```dart
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'login/phone_verify_screen.dart';

class LoginScreen extends StatefulWidget {
 @override
 State<StatefulWidget> createState() => LoginScreenState();
}

class LoginScreenState extends State<LoginScreen>{
 var phoneCt = TextEditingController();
 @override
 Widget build(BuildContext context){
  return Scaffold(
    backgroundColor: Colors.white,
    appBar: PreferredSize(
      preferredSize: const Size.fromHeight(0),
      child: Container(),
    ),
    body: SizedBox(
      width: double.infinity,
      height: double.infinity,
      child: Center(
        child: Column(
          mainAxisSize: MainAxisSize.min,
          children: <Widget>[
            Align(alignment: Alignment.topRight, child:
            TextButton(onPressed: (){
              Navigator.push(
                 context,
                 MaterialPageRoute(
                    builder: (context) =>
                       PhoneVerifyScreen()));
            },
              child: const Text("Next", style: TextStyle(fontWeight: FontWeight.bold), textDirection:
TextDirection.ltr,),
```

```
        ),),
        const Spacer(),
        SizedBox(
          width: 150,
          child: Image.asset('assets/images/telegram_logo.png'),
        ),
        Container(height: 30,),
        const Text("Your Phone", style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold,
color: Colors.black),textDirection: TextDirection.ltr, ),
        Container(height: 15,),
        const Text('Please confirm your country code \nand enter your phone number.',
textAlign: TextAlign.center, textDirection: TextDirection.ltr,),
        Container(height: 30,),
        Container(
          margin: const EdgeInsets.only(left: 25, right: 25),
          child: TextField(

            textAlign: TextAlign.center,
            controller: phoneCt,
            maxLength: 12,
            maxLines: 1,
            keyboardType: TextInputType.phone,
            decoration: const InputDecoration(
              prefixIcon: Icon(Icons.phone),
              hintText: 'Your phone number'
            ),
          ),
        ),

        const Spacer(),
      ],
    ),
   ),
  ),
 );
}
}
```

DEBUG

+911234567890

We just sent you an SMS with the code.

Code

0/12

+Haven't received the code?

DEBUG

Your Phone

Please confirm your country code
and enter your phone number.

📞 Your phone number

0/12