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Experiment: 04

**AIM**: To create an interactive Form using form widget **THEORY**:

### Flutter Form Widget:

The Form widget in Flutter provides a way to create and manage a group of related form elements. It helps with form validation, submission, and data storage. When using the Form widget, you typically also use TextFormField for text input and other form-related widgets.

#### TextFormFields:

• Use **TextFormField** widgets for text input fields within the form. These widgets handle user input, validation, and saving data.

### Form Submission:

• Typically, a button triggers form submission. The **onPressed** callback of the button calls a function, which in turn validates and saves the form data.

### Code:

### Signup.dart

```
import 'dart:io';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:firebase storage/firebase storage.dart';
import 'package:gmail_clone/models/user.dart' as CustomUser;
import 'package:flutter/material.dart';
import 'package:gmail clone/variables.dart';
import 'package:image_picker/image_picker.dart';
class SignUp extends StatefulWidget {
 const SignUp({super.key});
 @override
 State<SignUp> createState() => _SignUpState();
}
class SignUpState extends State<SignUp> {
 final GlobalKey<ScaffoldMessengerState> scaffoldMessengerKey =
   GlobalKey<ScaffoldMessengerState>();
 File? imagepath;
 var usernamecontroller = TextEditingController();
 var passwordcontroller = TextEditingController();
 pickimage(ImageSource imageSource) async {
  final image = await ImagePicker().pickImage(
   source: imageSource,
```

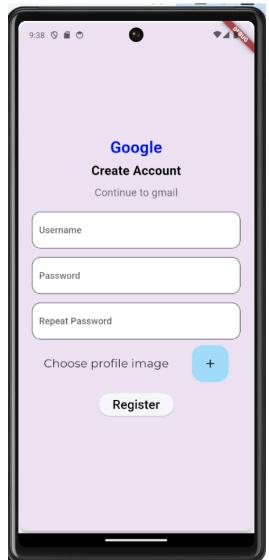
```
maxWidth: 670,
  maxHeight: 800,
 if (image != null) {
  setState(() {
    imagepath = File(image.path);
  Navigator.pop(context);
}
pickimagedialog() {
 return showDialog(
    context: context,
    builder: (context) {
     return SimpleDialog(
      children: <Widget>[
       SimpleDialogOption(
         onPressed: () => pickimage(ImageSource.gallery),
         child:
           Text("From gallery", style: mystyle(20, Colors.lightBlue)),
       SimpleDialogOption(
         onPressed: () => pickimage(ImageSource.camera),
         child:
           Text("From camera", style: mystyle(20, Colors.lightBlue)),
       ),
       SimpleDialogOption(
         onPressed: () => Navigator.pop(context),
         child: Text("Cancel", style: mystyle(20, Colors.lightBlue)),
       ),
      ],
     );
   });
}
uploadimage() async {
 //Store image
 UploadTask storage =
    profilepics.child(usernamecontroller.text).putFile(imagepath!);
 //complete storage
 TaskSnapshot storageTaskSnapshot = await storage;
 //download pic
 String downloadedpic = await storageTaskSnapshot.ref.getDownloadURL();
 return downloadedpic;
}
registeruser() async {
 try {
```

```
String downloadpic = imagepath == null
     ? 'https://fdlc.org/157-1578186_user-profile-default-image-png-clipart-png/
     : await uploadimage();
  FirebaseAuth.instance
     .createUserWithEmailAndPassword(
       email: usernamecontroller.text + '@gmail.com',
       password: passwordcontroller.text)
     .then((signeduser) {
   CustomUser.User().storeuser(usernamecontroller.text + '@gmail.com',
      usernamecontroller.text, passwordcontroller.text, downloadpic);
  Navigator.pop(context);
 } catch (e) {
  print(e);
  SnackBar snackBar = SnackBar(content: Text(e.toString()));
  scaffoldMessengerKey.currentState!.showSnackBar(snackBar);
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  key: scaffoldMessengerKey,
  body: SingleChildScrollView(
   child: Center(
      child: Container(
    width: MediaQuery.of(context).size.width,
     height: MediaQuery.of(context).size.height,
     child: Card(
      elevation: 10,
      child: Column(
       mainAxisAlignment: MainAxisAlignment.center,
       children: <Widget>[
        Text("Google",
           style: mystyle(
            25,
            Color.fromARGB(255, 4, 20, 243),
           )),
         SizedBox(height: 5.0),
         Text("Create Account", style: mystyle(18, Colors.black)),
         SizedBox(height: 10.0),
         Text("Continue to gmail", style: mystyle(18, Colors.black)),
         SizedBox(height: 20),
         Container(
         width: MediaQuery.of(context).size.width,
          margin: EdgeInsets.only(left: 20, right: 20),
          child: TextField(
           controller: usernamecontroller,
           decoration: InputDecoration(
             filled: true.
```

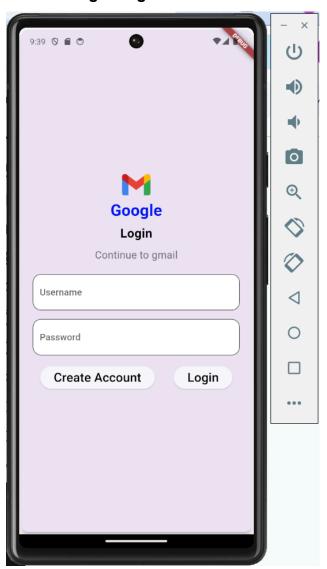
```
hintText: "Username",
     border: OutlineInputBorder(
       borderRadius: BorderRadius.circular(15.0))),
 ),
),
SizedBox(height: 15.0),
Container(
 width: MediaQuery.of(context).size.width,
 margin: EdgeInsets.only(left: 20, right: 20),
 child: TextField(
  controller: passwordcontroller,
  decoration: InputDecoration(
     filled: true,
     hintText: "Password",
     border: OutlineInputBorder(
       borderRadius: BorderRadius.circular(15.0))),
 ),
),
SizedBox(height: 15.0),
Container(
 width: MediaQuery.of(context).size.width,
 margin: EdgeInsets.only(left: 20, right: 20),
 child: TextField(
  decoration: InputDecoration(
     filled: true,
     hintText: "Repeat Password",
     border: OutlineInputBorder(
       borderRadius: BorderRadius.circular(15.0))),
 ),
),
SizedBox(height: 10.0),
Row(
 mainAxisAlignment: MainAxisAlignment.spaceEvenly,
 children: <Widget>[
  InkWell(
   onTap: () => pickimagedialog(),
   child: Container(
     width: 64,
     height: 64,
     decoration: BoxDecoration(
       color: Colors.lightBlue,
       borderRadius: BorderRadius.circular(20.0)),
     child: Center(
      child: imagepath == null
         ? Icon(Icons.add)
        : Image(image: FileImage(imagepath!)),
     ),
   ),
  ),
```

## **Output:**

# SignUp Page



**Login Page** 



### Code:

### Addmail.dart file

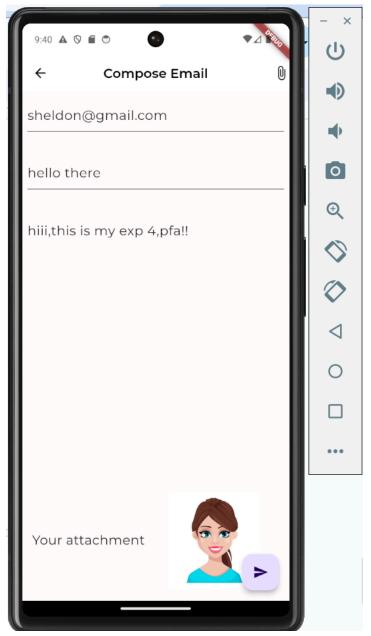
```
Widget build(BuildContext context) {
  return Scaffold(
     floatingActionButton: FloatingActionButton(
      onPressed: () => sendmail(),
      child: lcon(lcons.send),
     ),
     appBar: AppBar(
      backgroundColor: Colors.white,
      actions: <Widget>[
       InkWell(
        onTap: () => pickimagedialog(),
        child: Icon(
          Icons.attach file,
          color: Colors.black,
        ),
       ),
      ],
      title: Text(
       "Compose Email",
       style: mystyle(20, Colors.black, FontWeight.w600),
      centerTitle: true,
      leading: InkWell(
       onTap: () => Navigator.pop(context),
       child: Icon(
         Icons.arrow_back,
        color: Colors.black,
       ),
      ),
     ),
     body: uploading == true
       ? Center(
          child: Text(
          "Sending mail ...",
          style: mystyle(35),
        ))
       : Padding(
          padding: EdgeInsets.all(8.0),
          child: Column(
           children: <Widget>[
            Container(
               width: MediaQuery.of(context).size.width,
               height: MediaQuery.of(context).size.height * 0.1,
               child: TextFormField(
                controller: receiver,
                style: mystyle(20),
```

```
decoration: InputDecoration(
       hintText: "To", labelStyle: mystyle(20)),
    )),
 Container(
   width: MediaQuery.of(context).size.width,
   height: MediaQuery.of(context).size.height * 0.1,
    child: TextFormField(
     controller: subject,
     style: mystyle(20),
     decoration: InputDecoration(
       hintText: "Subject", labelStyle: mystyle(20)),
    )),
 Expanded(
  child: Container(
     width: MediaQuery.of(context).size.width,
     child: TextFormField(
      controller: mail,
      style: mystyle(20),
      maxLines: null,
      decoration: InputDecoration(
       hintText: "Mail",
       labelStyle: mystyle(20),
       border: InputBorder.none,
      ),
     )),
 ),
 imagepath == null
    ? Container()
    : MediaQuery.of(context).viewInsets.bottom > 0
      ? Container()
      : Container(
         alignment: Alignment.centerLeft,
         margin: EdgeInsets.only(bottom: 10),
         child: Row(
          mainAxisAlignment:
             MainAxisAlignment.spaceEvenly,
          children: <Widget>[
           Text(
             "Your attachment",
             style: mystyle(20),
           ),
           Container(
            width: 200,
            height: 150,
             child: Image(image: FileImage(imagepath)),
           )
          ],
         ))
],
```

```
),
));
}
}
```

**Output:** 

## **Compose Mail Page**



**Conclusion:** Understood the use form widget,made an interactive form to compose email

\*\*\*\*\*\*\*\*