ABHINAYA DANDA D15A Roll no.12

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:

```
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!)),
     ),
   ),
  InkWell(
```

Output:


