ABHINAYA DANDA D15A Roll no.12

Experiment 3

Aim:To include icons, images, fonts in Flutter app Theory:

Flutter widget are of two categories:

Visible (Output and Input)

Invisible (Layout and Control)

Visible widget

The visible widgets are related to the user input and output data. Some of the important types of

this widget are:

1. Text

A Text widget holds some text to display on the screen. We can align the text widget by using

textAlign property, and style property allow the customization of Text that includes font, font

weight, font style, letter spacing, color, and many more. We can use it as like below code

snippets.

new Text(

'Hello, ALL!',

textAlign: TextAlign.center,

style: new TextStyle(fontWeight: FontWeight.bold),

)

2. Button

This widget allows you to perform some action on click. Flutter does not allow you to use the

Button widget directly; instead, it uses a type of buttons like a FlatButton and a RaisedButton.

We can use it as like below code snippets

//FlatButton Example

new FlatButton(

```
child: Text("Click here"),
onPressed: () {
// Do something here
},
),
//RaisedButton Example
new RaisedButton(
child: Text("Click here"),
elevation: 5.0,
onPressed: () {
// Do something here
},
```

3. Image

This widget holds the image which can fetch it from multiple sources like from the asset

folder or directly from the URL. It provides many constructors for loading image, which

are given below:

o Image: It is a generic image loader, which is used by ImageProvider.

o asset: It load image from your project asset folder.

o file: It loads images from the system folder.

o memory: It load image from memory.

o network: It loads images from the network.

To add an image in the project, you need first to create an assets folder where you keep

your images and then add the below line in pubspec.yaml file.

assets:

assets/comp.jpg

Steps to Add an Image:

Step 1. Create a new folder

- It should be in the root of your flutter project. You can name it whatever you want, but assets are preferred.
- If you want to add other assets to your app, like fonts, it is preferred to make another subfolder named images.

Step 2. Now you can copy your image to images sub-folder. The path should look like assets/images/yourlmage. Before adding images also check the above-mentioned supported image formats.

Step 3. Register the assets folder in pubspec.yaml file and update it. To add images, write the following code: flutter:

assets:

- assets/images/yourFirstImage.jpg
- assets/image/yourSecondImage.jpg

If you want to include all the images of the assets folder then add this: flutter:

assets:

- assets/images/

Step 4. Insert the image code in the file, where you want to add the image.

Code and output: Mails.dart file:

```
import 'package:cloud firestore/cloud firestore.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:flutter/material.dart';
import 'package:gmail clone/addmail.dart';
import 'package:gmail clone/sentmails.dart';
import 'package:gmail clone/starredmails.dart';
import 'package:gmail clone/variables.dart';
import 'package:gmail clone/viewmail.dart';
import 'package:intl/intl.dart';
class Mails extends StatefulWidget {
 const Mails({super.key});
 @override
 String? usermail;
 Stream? mystream;
 int currentIndex = 0;
 @override
 initState() {
   super.initState();
   getuserdata();
   getstream();
 getstream() {
   setState(() {
     mystream =
usercollection.doc(usermail).collection('inbox').snapshots();
   });
 getuserdata() async {
   var firebaseuser = FirebaseAuth.instance.currentUser;
   setState(() {
```

```
usermail = firebaseuser!.email;
 starmessage(String id) async {
   DocumentSnapshot document =
usercollection.doc(usermail).collection('inbox').doc(id).get();
     usercollection
          .doc(usermail)
          .collection('inbox')
          .doc(id)
          .update({'stared': true});
     usercollection
          .doc(usermail)
          .collection('inbox')
          .doc(id)
          .update({'stared': false});
   setState(() {
     mystream = usercollection
          .doc(usermail)
          .collection('inbox')
          .where('subject', isGreaterThanOrEqualTo: str)
          .snapshots();
 @override
 Widget build(BuildContext context) {
     appBar: AppBar(
        backgroundColor: Colors.white,
```

```
title: Material(
    elevation: 8.0,
    child: TextFormField(
      onFieldSubmitted: (str) => searchmail(str),
        border: InputBorder.none,
        suffixIcon: Container(
         margin: EdgeInsets.all(5),
         child: CircleAvatar(
           backgroundImage: NetworkImage(exampleimage),
      ),
drawer: Drawer(
  child: ListView(
    children: <Widget>[
      DrawerHeader(
          color: Color.fromARGB(255, 255, 255, 255),
          border: Border.all(
            color: Colors.grey, // Border color
```

```
child: Row(
    children: [
      Image.asset(
        height: 40, // Adjust the height as needed
      SizedBox(width: 10),
        style: TextStyle(
          color: Color.fromRGBO(161, 160, 160, 1),
          fontSize: 24,
      ),
ListTile(
  leading: Icon(Icons.inbox),
 onTap: () {
   Navigator.pop(context); // Close the drawer
),
ListTile(
  leading: Icon(Icons.star),
 onTap: () {
    Navigator.pop(context);
    Navigator.push(
```

```
ListTile(
              leading: Icon(Icons.send),
              onTap: () {
               Navigator.pop(context); // Close the drawer
               Navigator.push(
                  MaterialPageRoute(builder: (context) =>
SentMailsScreen()),
               );
            ),
           ListTile(
             leading: Icon(Icons.drafts),
             onTap: () {
               Navigator.pop(context); // Close the drawer
            ),
            ListTile(
             onTap: () {
               Navigator.pop(context); // Close the drawer
            ),
            ListTile(
              leading: Icon(Icons.error),
             onTap: () {
               Navigator.pop(context); // Close the drawer
            ListTile(
```

```
leading: Icon(Icons.delete),
        onTap: () {
          Navigator.pop(context); // Close the drawer
),
floatingActionButton: FloatingActionButton(
  backgroundColor: Colors.white,
  onPressed: () => Navigator.push(
  child: Icon(
   size: 45,
   color: Colors.red,
),
floatingActionButtonLocation: FloatingActionButtonLocation.endFloat,
body: StreamBuilder(
    stream: mystream,
    builder: (context, snapshot) {
      if (!snapshot.hasData) {
        return CircularProgressIndicator();
      print(snapshot.data!.docs.length);
      return ListView.builder(
          itemCount: snapshot.data!.docs.length,
          itemBuilder: (BuildContext context, int index) {
            DocumentSnapshot email = snapshot.data!.docs[index];
            print(email);
            return InkWell(
              onTap: () => Navigator.push(
```

```
builder: (context) => ViewMail(
                                 email['id'],
                                 email['sender'],
                                 email['time'],
                                 email['picture'],
                                 email['mail'],
                                 email['subject'],
                                 email['profilepic'],
                                 email['username']))),
                    child: Padding(
                      padding: EdgeInsets.all(14),
                      child: Row(
                        mainAxisAlignment: MainAxisAlignment.spaceBetween,
                        children: <Widget>[
                          Row (
                            children: [
                              CircleAvatar(
                                 backgroundImage:
                                 radius: 24,
                                 crossAxisAlignment:
CrossAxisAlignment.start,
                                 children: <Widget>[
                                     style: email['hasred'] == false
                                         ? mystyle(
FontWeight.w700)
                                         : mystyle(
                                             22, Colors.black,
FontWeight.w400),
```

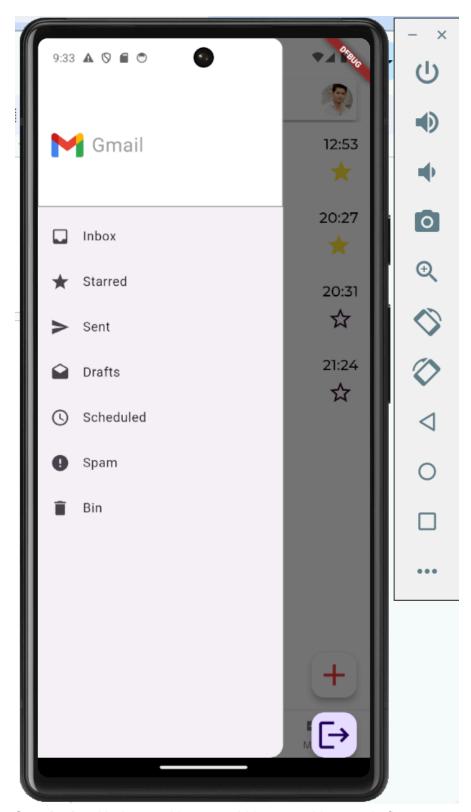
```
overflow: TextOverflow.ellipsis,
                                     style: email['hasred'] == false
                                         ? mystyle(
FontWeight.w700)
                                         : mystyle(
FontWeight.w400),
                          ),
                              DateFormat.Hm()
                                   .format(email['time'].toDate())
                                   .toString(),
                               style: mystyle(18, Colors.black,
FontWeight.w500),
                            ),
                              height: 5.0,
                            ),
                            InkWell(
                                 onTap: () => starmessage(email['id']),
                                child: email['stared'] == false
                                         Icons.star,
                                         color: Colors.yellow,
```

```
size: 32,
bottomNavigationBar: BottomNavigationBar(
  onTap: (index) {
    setState(() {
     currentIndex = index;
      icon: Icon(Icons.mail),
      icon: Icon(Icons.chat),
      label: 'Chat',
      label: 'Meet',
```

```
✓ GMAIL_CLONE
> .dart_tool
> .idea
> android
✓ assets
☑ com.png
> build
> ios
✓ lib
```

```
# To add assets to your application, add an assets section, like this:
    assets:
    - assets/com.png
# - images/a_dot_ham.jpeg
```

output:



Conclusion: Understood how to add icons and images in flutter app