

EXPERIMENT NO 3

Aim :- To include icon,image,fonts in Flutter app

Theory :-

In Flutter, images play an essential role in enhancing the UI and user experience. Images can be loaded from different sources, including assets, networks, memory, and files.

Flutter provides the Image widget, which supports multiple ways of displaying images in an application. The most common ways to add images in Flutter are:

- **Asset Images:** Images stored locally in the project directory.
- **Network Images:** Images loaded from an online URL.
- **File Images:** Images selected from a device's storage.
- **Memory Images:** Images loaded from raw byte data.

Flutter makes it easy to display images efficiently using caching and other optimization techniques.

➤ Adding Images in Flutter

Displaying images in a Flutter application involves different methods based on the image source. Below are the common ways to handle images in Flutter:

1. Using Asset Images (Local Images)

Asset images are stored within the app's project directory and bundled with the application.

Steps to Add Asset Images:

1. Place the Image in the Assets Folder

- Create an assets/images folder inside the project.
- Add the image file inside the folder (e.g., assets/images/my_image.png).

2. Declare the Image in pubspec.yaml

- Register the image in the pubspec.yaml file:

flutter:

assets:

- assets/images/my_image.png

- Run flutter pub get to update dependencies.

3. Use the Image.asset Widget in Your Code

```
Image.asset('assets/images/my_image.png')
```

2. Using Network Images (Online Images)

Network images are loaded from an external URL and require an internet connection.

Displaying a Network Image

```
Image.network('https://example.com/my_image.png')
```

3. Using File Images (From Device Storage)

File images allow users to pick an image from their device and display it in the app. The `image_picker` package is commonly used for this purpose.

Example Usage with `image_picker`

```
import 'dart:io';

import 'package:flutter/material.dart';
import 'package:image_picker/image_picker.dart';

class ImagePickerExample extends StatefulWidget {
  @override
  _ImagePickerExampleState createState() => _ImagePickerExampleState();
}

class _ImagePickerExampleState extends State<ImagePickerExample> {
  File? _image;

  Future<void> pickImage() async {
    final pickedFile = await ImagePicker().pickImage(source: ImageSource.gallery);
    if (pickedFile != null) {
      setState(() {
        _image = File(pickedFile.path);
      });
    }
  }

  @override
  Widget build(BuildContext context) {
```

```

return Scaffold(
  appBar: AppBar(title: Text('Pick an Image')),
  body: Center(
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        _image != null ? Image.file(_image!) : Text('No image selected'),
        ElevatedButton(onPressed: pickImage, child: Text('Pick Image')),
      ],
    ),
  ),
);
}
}

```

4. Using Memory Images (Raw Byte Data)

Sometimes, images may be loaded from raw binary data using `MemoryImage`:

```
dart
```

```
CopyEdit
```

```
Uint8List imageData = ...; // Some image data in bytes
```

```
Image.memory(imageData)
```

Image Properties

All image types (`Image.asset`, `Image.network`, `Image.file`, `Image.memory`) support various properties like:

```

Image.asset(
  'assets/images/my_image.png',
  width: 200,
  height: 200,
  fit: BoxFit.cover,
)

```

BoxFit Options:

- BoxFit.cover – Covers the container, cropping if necessary.
- BoxFit.contain – Fits the image inside the container without cropping.
- BoxFit.fill – Stretches the image to fill the container.
- BoxFit.fitWidth – Scales the image to match the width.
- BoxFit.fitHeight – Scales the image to match the height.

Code :-

```
import 'package:carousel_slider/carousel_slider.dart';
import 'package:flutter/material.dart';
import 'package:rapido_app_clone/screen/search_screen.dart';
import 'package:rapido_app_clone/utils/custom_text_style.dart';
import 'package:rapido_app_clone/widgets/myExploreCard.dart';
import 'package:rapido_app_clone/widgets/my_save_more_card.dart';

class HomeScreen extends StatefulWidget {
  const HomeScreen({super.key});

  @override
  State<HomeScreen> createState() => _HomeScreenState();
}

class _HomeScreenState extends State<HomeScreen> {
  // here we create list image to shoe auto image slider
  List<Widget> bannerImage = [
    Container(
      height: 50,
      width: double.infinity,
      decoration: BoxDecoration(
        borderRadius:
          BorderRadius.circular(10),
        border: Border.all(width: 1, color: Colors.blue),
        image: const DecorationImage(
          image: AssetImage(
            "assets/image/rapido banner 2.png",
          ),
          fit: BoxFit.cover)),
    ),
    Container(
      height: 50,
      width: double.infinity,
      decoration: BoxDecoration(
        borderRadius:
          BorderRadius.circular(10),
```

```

border: Border.all(width: 1, color:
Colors.blue),

image: const DecorationImage(
  image: AssetImage(
    "assets/image/rapido banner 3.png",
  ),
  fit: BoxFit.cover)),
),
Container(
  height: 50,
  width: double.infinity,
  decoration: BoxDecoration(
    borderRadius:
BorderRadius.circular(10),

    border: Border.all(width: 1, color:
Colors.blue),

    image: const DecorationImage(
      image: AssetImage(
        "assets/image/rapido poster 1.png",
      ),
      fit: BoxFit.cover)),
  ),
];

```

/// Image and title list

```

List<Map<String, dynamic>> data = [
  {"image": "assets/image/parcel.png",
"title": "Parcel"},

  {"image": "assets/image/auto.png", "title":
"Auto"},

  {"image": "assets/image/cab
economy.png", "title": "Cab Economy"},

```

```

{"image": "assets/image/motorbike.png",
"title": "Bike"},

  {"image": "assets/image/lite bike.png",
"title": "Lite Bike"},

  {"image": "assets/image/cab
premium.png", "title": "Cab Premium"}
];

@override
Widget build(BuildContext context) {
  return Scaffold(

    appBar: AppBar(
      backgroundColor: Colors.white,
      title: InkWell(
        /// when click on search box open
search screen

        onTap: () {
          Navigator.push(context,
            MaterialPageRoute(builder: (context)
=> SearchScreen()));
        },

        /// here we apply hero animation

        child: Container(
          height: 40,
          width: 280,
          decoration: BoxDecoration(
            borderRadius:
BorderRadius.circular(20),

            color:
Colors.black12.withOpacity(0.05)),

          child: Padding(

```

```

padding: const
EdgeInsets.symmetric(horizontal: 10.0),

child: Row(

  children: [

    const Icon(Icons.search_rounded),

    const SizedBox(

      width: 10,

    ),

    Hero(

      tag: "anim",

      child: Text(

        "Where are you going?",

        style:

myTextStyle20(fontWeight: FontWeight.bold),

      ),

    ),

  ],

),

)),

),

),

backgroundColor: Colors.white,

///
_____BODY_____
///

body: SingleChildScrollView(

  child: Column(

    crossAxisAlignment:

CrossAxisAlignment.start,

    children: [

      Padding(

```

```

padding: const
EdgeInsets.symmetric(horizontal: 10.0),

child: Row(

  mainAxisAlignment:

MainAxisAlignment.spaceBetween,

  children: [

    Text(

      "Explore",

      style: myTextStyle18(fontWeight:

FontWeight.bold),

    ),

    /// View All Button , click on
onPress bottom Sheet

    ///
_____VIEW
ALL_____///

    TextButton(

      onPressed: () {

        showModalBottomSheet(

          showDragHandle: true,

          context: context,

          builder: (context) {

            return Container(

              height: 300,

              width: double.infinity,

              child: Column(

                crossAxisAlignment:

CrossAxisAlignment.start,

                children: [

                  Padding(

                    padding: const

EdgeInsets.symmetric(

```

```

        horizontal: 10.0),
      ),
      child: Text(
        "All Services ",
        style: myTextStyle22(
          fontWeight:
FontWeight.bold),
      ),
    ),
  ),
  const SizedBox(
    height: 10,
  ),
  Expanded(
    child: GridView.builder(
      itemCount: data.length,
      gridDelegate:
        const
SliverGridDelegateWithFixedCrossAxisCount(
          crossAxisCount: 4),
      itemBuilder: (context,
index) {
      // here we call my
      explore card
      return InkWell(
        onTap: () {
          Navigator.pop(context);
        },
        child: MyExploreCard(
          imagePath:
data[index]['image'],
          title:
data[index]['title'],
        ),
        // Here we show Rapido servie
        // Create custom Card ExploreCard
        // Here we call
        Padding(
          padding: const
EdgeInsets.symmetric(horizontal: 10.0),
          child: Row(
            mainAxisAlignment:
MainAxisAlignment.spaceBetween,
            children: [
              MyExploreCard(

```

```

        imagePath:
"assets/image/parcel.png",
        title: "Parcel",
    ),
    MyExploreCard(
        imagePath:
"assets/image/auto.png",
        title: "Auto",
    ),
    MyExploreCard(
        imagePath: "assets/image/cab
economy.png",
        title: "Cab Economy",
    ),
    MyExploreCard(
        imagePath:
"assets/image/motorbike.png",
        title: "Bike",
    ),
],
),
),
const SizedBox(
    height: 20,
),

/// here we show auto image slider for
banner showing

Padding(
    padding: const EdgeInsets.all(8.0),
    child: CarouselSlider(

```

```

        items: bannerImage,
        options: CarouselOptions(
            height: 100,
            aspectRatio: 16 / 3,
            viewportFraction: 1,
            initialPage: 0,
            enableInfiniteScroll: true,
            reverse: true,
            autoPlay: true,
            autoPlayInterval: const
Duration(seconds: 3),
            autoPlayAnimationDuration:
                const Duration(milliseconds:
900),
            autoPlayCurve:
Curves.fastOutSlowIn,
            enlargeCenterPage: true,
            enlargeFactor: 0.3,
            scrollDirection: Axis.horizontal,
        )),
    ),
    const SizedBox(
        height: 20,
    ),

/// SAVE MORE WITH RAPIDO
Padding(
    padding: const EdgeInsets.only(left:
10.0),
    child: Text(
        "Save More With Rapido",

```



```

        style: myTextStyle20(textColor:
Colors.black87),
      ),
    ),

```

```

/// here we create custom card

```

```

/// here we call my save card

```

```

const SizedBox(
  height: 10,
),
SingleChildScrollView(
  scrollDirection: Axis.horizontal,
  child: Padding(
    padding: const
EdgeInsets.symmetric(horizontal: 10.0),
    child: Row(
      children: [
        /// Airport
        MySaveMoreCard(
          title: "Airport",
          imagePath:
"assets/image/AirPort-icon.png"),
        const SizedBox(
          width: 15,
        ),
        /// Railway Station
        MySaveMoreCard(
          title: "Railway station",
          imagePath:
"assets/image/railway.png"),

```

```

const SizedBox(
  width: 15,
),

/// Bus stand
MySaveMoreCard(
  title: "Bus Stand",
  imagePath: "assets/image/bus-
removebg-preview.png"),
],
),
),
),

/// here we show single poster
Padding(
  padding: const EdgeInsets.all(10.0),
  child: Container(
    height: 150,
    decoration: BoxDecoration(
      borderRadius:
BorderRadius.circular(15),
      image: const DecorationImage(
        image: AssetImage(
          "assets/image/rapid poster
2.png",
        ),
        fit: BoxFit.cover)),
    ),
  ),
const SizedBox(

```

```

height: 20,
),

/// last background poster show
Stack(children: [
  Image.asset(
    "assets/image/childrens-pattern-
600nw-367289369-removebg-preview.png",
    color: Colors.black38,
  ),
  Positioned(
    left: 0,
    top: 200,
    child: Container(
      color:
Colors.white70.withOpacity(0.9),
      child: Padding(
        padding: const
EdgeInsets.symmetric(horizontal: 10.0),
        child: Column(
          mainAxisAlignment:
MainAxisAlignment.start,
          crossAxisAlignment:
CrossAxisAlignment.start,
          children: [
            Text(
              "#goRapido",
              style: myTextStyle40(
                fontWeight:
FontWeight.bold,
                textColor: Colors.black54),
            ),

```

```

Row(
  mainAxisAlignment:
MainAxisAlignment.start,
  children: [
    Image.asset(
      "assets/icon/india.png",
      height: 20,
      width: 20,
    ),
    const SizedBox(
      width: 5,
    ),
    Text(
      "Made For India",
      style: myTextStyle18(),
    )
  ],
),
Row(
  mainAxisAlignment:
MainAxisAlignment.start,
  children: [
    Image.asset(
      "assets/icon/love (1).png",
      height: 20,
      width: 20,
    ),
    const SizedBox(
      width: 5,
    ),
    Text(

```

```

        "Crafted in Bengaluru",
        style: myTextStyle18(),
    )
  ],
),
],
),
),
))
])
],
),
),

```

```

drawer: Drawer(
  width: double.infinity,
  backgroundColor: Colors.white,
  child: ListView(
    children: [
      DrawerHeader(
        child: Column(
          children: [
            Row(
              children: [
                IconButton(
                  onPressed: () {
                    Navigator.pop(context);
                  },
                  icon: const
Icon(Icons.arrow_back_rounded)),

```

```

Text(
  "Menu",
  style: myTextStyle18(fontWeight:
FontWeight.bold),
)
],
),

/// back icon and manu text
Container(
  height: 80,
  decoration: BoxDecoration(
    boxShadow: const [
      BoxShadow(
        color: Colors.black,
        blurRadius: 1,
        spreadRadius: 1),
    ],
    borderRadius:
BorderRadius.circular(10),
    color: Colors.white,
    border: Border.all(width: 1, color:
Colors.black26)),
  child: Column(
    children: [
      ListTile(
        leading: Image.asset(
          "assets/icon/user (2).png",
          height: 40,
        ),
        title: Text(

```

```

        "App Creator",
        style:
myTextStyle15(fontWeight: FontWeight.bold),
    ),
    subtitle: Text(
        "1234567890",
        style: myTextStyle15(),
    ),
    trailing: const
Icon(Icons.navigate_next_rounded),
    )
    ],
    ),
    ),
    ],
    )),

```

```

/// Drawer Body

```

```

ListTile(
    title: Text(
        "Help",
        style: myTextStyle18(fontWeight:
FontWeight.bold),
    ),
    leading: Image.asset(
        "assets/icon/handshake.png",
        height: 30,
    ),
    trailing: const
Icon(Icons.navigate_next_outlined),
    ),

```

```

const Divider(),

ListTile(
    title: Text(
        "Parcel - Send Items",
        style: myTextStyle18(fontWeight:
FontWeight.bold),
    ),
    leading: Image.asset(
        "assets/icon/trolley (1).png",
        height: 30,
    ),
    trailing: const
Icon(Icons.navigate_next_outlined),
    ),
    const Divider(),

```

```

ListTile(
    title: Text(
        "Payment",
        style: myTextStyle18(fontWeight:
FontWeight.bold),
    ),
    leading: Image.asset(
        "assets/icon/credit-card.png",
        height: 30,
    ),
    trailing: const
Icon(Icons.navigate_next_outlined),
    ),
    const Divider(),

```

```

ListTile(
  title: Text(
    "My Rides",
    style: myTextStyle18(fontWeight:
FontWeight.bold),
  ),
  leading: Image.asset(
    "assets/icon/refresh.png",
    height: 30,
  ),
  trailing: const
Icon(Icons.navigate_next_outlined),
),
const Divider(),
ListTile(
  title: Text(
    "Safety",
    style: myTextStyle18(fontWeight:
FontWeight.bold),
  ),
  leading: Image.asset(
    "assets/icon/verified.png",
    height: 30,
  ),
  trailing: const
Icon(Icons.navigate_next_outlined),
),
const Divider(),

ListTile(
  title: Text(
    "Refer and Earn",

```

```

    style: myTextStyle18(fontWeight:
FontWeight.bold),
  ),
  subtitle: Text(
    "Get 50",
    style: myTextStyle15(),
  ),
  leading: Image.asset(
    "assets/icon/cost.png",
    height: 30,
  ),
  trailing: const
Icon(Icons.navigate_next_outlined),
),
const Divider(),

ListTile(
  title: Text(
    "My Reward",
    style: myTextStyle18(fontWeight:
FontWeight.bold),
  ),
  leading: Image.asset(
    "assets/icon/medal.png",
    height: 30,
  ),
  trailing: const
Icon(Icons.navigate_next_outlined),
),
const Divider(),

ListTile(

```

```

    title: Text(
      "Power Pass",
      style: myTextStyle18(fontWeight:
FontWeight.bold),
    ),
    leading: Image.asset(
      "assets/icon/id-card.png",
      height: 30,
    ),
    trailing: const
Icon(Icons.navigate_next_outlined),
  ),
  const Divider(),
  ListTile(
    title: Text(
      "Rapido Coin",
      style: myTextStyle18(fontWeight:
FontWeight.bold),
    ),
    leading: Image.asset(
      "assets/icon/dollar.png",
      height: 30,
    ),
    trailing: const
Icon(Icons.navigate_next_outlined),
  ),
  const Divider(),
  ListTile(
    title: Text(
      "Notifications",
      style: myTextStyle18(fontWeight:
FontWeight.bold),

```

```

    ),
    leading: Image.asset(
      "assets/icon/notification.png",
      height: 30,
    ),
    trailing: const
Icon(Icons.navigate_next_outlined),
  ),
  const Divider(),
  ListTile(
    title: Text(
      "Claims",
      style: myTextStyle18(fontWeight:
FontWeight.bold),
    ),
    leading: Image.asset(
      "assets/icon/security.png",
      height: 30,
    ),
    trailing: const
Icon(Icons.navigate_next_outlined),
  ),
  const Divider(),
  ListTile(
    title: Text(
      "Setting",
      style: myTextStyle18(fontWeight:
FontWeight.bold),
    ),
    leading: Image.asset(
      "assets/icon/setting.png",

```

```

        height: 30,
      ),
      trailing: const
Icon(Icons.navigate_next_outlined),
    ),
    const Divider(),

    Padding(
      padding: const EdgeInsets.all(8.0),
      child: Container(
        height: 100,
        decoration: BoxDecoration(
          color: const Color(0x66ffcc75),
          borderRadius:
BorderRadius.circular(16)),
        child: Row(
          mainAxisAlignment:
MainAxisAlignment.spaceBetween,
          children: [
            Padding(
              padding: const
EdgeInsets.only(left: 8.0),
              child: Column(
                mainAxisAlignment:
MainAxisAlignment.center,
                crossAxisAlignment:
CrossAxisAlignment.start,
                children: [
                  Text(
                    "Earn money with Rapido",
                    style:
myTextStyle15(fontWeight: FontWeight.bold),

```

Output



