

## EXPERIMENT NO: 3

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**CLASS:** D15A

**ROLL NO:** 45

**TOPIC:** BEHANCE: Behance is a platform for creative professionals to showcase portfolios, discover inspiration, and connect with others in the industry

**AIM:** -To include icons, images, fonts in Flutter app

### Theory:

Flutter is an open-source UI framework that allows developers to build natively compiled applications for multiple platforms—mobile, web, and desktop—using a single codebase. One of the primary advantages of Flutter is its flexibility in creating highly customizable user interfaces (UIs). This experiment focuses on the integration of essential visual elements—icons, images, and custom fonts—into a Flutter application. These visual elements not only enhance the aesthetic appeal of an app but also contribute to a more engaging and intuitive user experience.

In Flutter, an app consists of both assets (resources) and code. Assets refer to the static resources, such as images, icons, and configuration files, which are available during runtime. Flutter supports a wide variety of image formats, including JPEG, PNG, GIF, WebP, BMP, and others, enabling developers to include rich media content in their apps.

Visual elements serve a crucial role in mobile app development, offering the following benefits:

- **Improved User Experience:** Icons, images, and other visual elements make the app more visually appealing, engaging, and easy to use.
- **Quick Communication:** Visuals can convey complex information instantly. An icon can often represent a concept more effectively than text.
- **Brand Identity:** Custom visuals, such as logos and unique icon designs, contribute to reinforcing the app's branding, helping it stand out in a competitive market.

## Adding Icons in Flutter

Flutter offers a range of built-in material design icons accessible through the Icons class. In addition to the default icons, developers can also add custom icons using third-party packages such as flutter\_launcher\_icons or font\_awesome\_flutter. Here is an example of adding an icon in Flutter:

```
Icon(  
  Icons.home,  
  size: 40,  
);
```

## Adding Images in Flutter

Flutter supports displaying images from three different sources:

1. **Local Assets (Stored within the app project)**
  - Store the image inside the assets/images/ folder of the project.
  - Declare the image path in the pubspec.yaml file.
  - Use the Image.asset widget to display the image in the app.
2. Example:

```
flutter:  
  
  assets:  
    - assets/images/sample.png  
  
Image.asset('assets/images/sample.png');
```

### Network (Fetched from the internet)

- Displaying images from the internet is simple using the **Image.network** method. This method allows you to provide additional properties such as width, height, and fit for controlling the image's appearance.

```
Image.network('https://example.com/sample.jpg');
```

## Adding Custom Fonts in Flutter

While Flutter uses the Roboto font by default, you can add custom fonts to personalize your app's typography.

- Download the font file and place it in the assets/fonts/ folder.
- Declare the custom font in the pubspec.yaml file.
- Apply the custom font to text widgets in your app using the TextStyle widget.

Example:

1. Place the custom font in the assets/fonts/ folder.
2. Declare the font in pubspec.yaml:

yaml

flutter:

fonts:

- family: 'CustomFont'

fonts:

- asset: assets/fonts/CustomFont-Regular.ttf

Text(

'Custom Font Example',

style: TextStyle(fontFamily: 'CustomFont'),

);

## bottom\_nav.dart

```
import 'package:flutter/material.dart';
import '../Creatives.dart'; // Ensure the
correct import for CreativesPage
import '../AboutInfo.dart'; // Ensure this
file contains AboutInfoPage
import '../ArtistDetails.dart';
class TopNavBar extends StatelessWidget
{
  const TopNavBar({Key? key}) :
  super(key: key);

  @override
  Widget build(BuildContext context) {
    return Container(
      margin: const EdgeInsets.only(top:
30),
      padding: const
EdgeInsets.symmetric(horizontal: 16,
vertical: 20),
      color: Colors.black,
      child: Row(
        mainAxisAlignment:
MainAxisAlignment.spaceBetween,
        children: [
          // Search Icon
          IconButton(
            icon: const Icon(Icons.search,
color: Colors.white),
            onPressed: () {
              // Implement search functionality
              here
            },
          ),

          const Text(
            "Explore",
            style: TextStyle(color:
Colors.white, fontSize: 18, fontWeight:
FontWeight.bold),
          ),

          // "For You" with Navigation
```

```
GestureDetector(
  onTap: () {
    Navigator.push(
      context,
      MaterialPageRoute(builder:
(context) => AboutInfoPage()), // Ensure
this page exists
    );
  },
  child: const Text(
    "For You",
    style: TextStyle(color:
Colors.grey, fontSize: 18),
  ),

  // "Following" Text
  GestureDetector(
    onTap: () {
      Navigator.push(
        context,
        MaterialPageRoute(builder:
(context) => ArtistDetails()), // Ensure
this page exists
      );
    },
    child: const Text(
      "Following",
      style: TextStyle(color:
Colors.grey, fontSize: 18),
    ),

    // Settings Icon with Navigation
    IconButton(
      icon: const Icon(Icons.settings,
color: Colors.white),
      onPressed: () {
        Navigator.push(
          context,
          MaterialPageRoute(builder:
(context) => CreativesPage()), // Ensure
CreativesPage exists );
      },
    ),
  ),
),
),
```

## Home.dart

```
import 'package:flutter/material.dart';
import '../widgets/bottom_nav.dart';
import '../widgets/top_nav.dart';
import '../widgets/custom_card.dart';

class HomePage extends
StatefulWidget {
  const HomePage({Key? key}) :
super(key: key);

  @override
  _HomePageState createState() =>
  _HomePageState();
}

class _HomePageState extends
State<HomePage> {
  int _selectedIndex = 0;

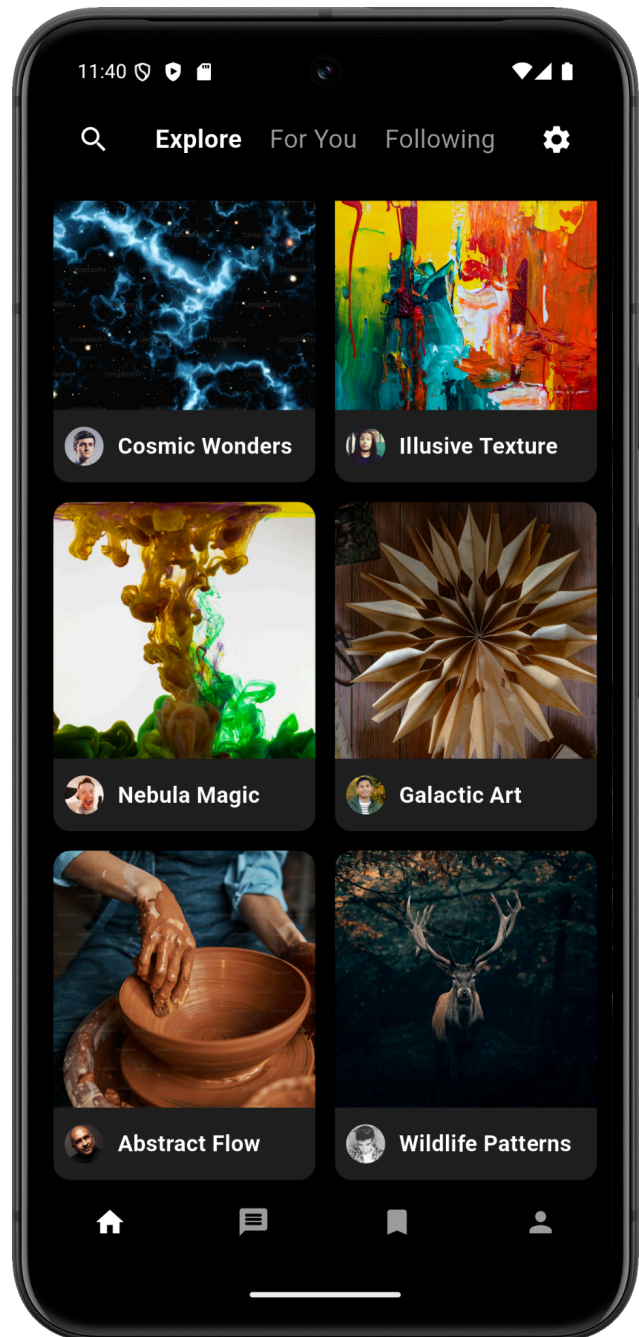
  void _onNavTapped(int index) {
    setState(() {
      _selectedIndex = index;
    });
  }

  final List<Map<String, String>> items
= [
  {
    "title": "Cosmic Wonders",
    "imageUrl":
"https://plus.unsplash.com/premium_p
hoto-1667105168041-3fad1d08b58b?
q=80&w=2127&auto=format&fit=crop
&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8
MHxwaG90by1wYWdlfHx8fGVufDB8f
Hx8fA%3D%3D",
  },
  {
    "title": "Illusive Texture",
    "imageUrl":
"https://images.unsplash.com/photo-1
541961017774-22349e4a1262?q=80
```

```
&w=1958&auto=format&fit=crop&ixlib
=rb-4.0.3&ixid=M3wxMjA3fDB8MHxw
aG90by1wYWdlfHx8fGVufDB8fHx8fA
%3D%3D",
  },
  {
    "title": "Nebula Magic",
    "imageUrl":
"https://images.unsplash.com/photo-1
612743138072-675de14392e1?q=80
&w=1972&auto=format&fit=crop&ixlib
=rb-4.0.3&ixid=M3wxMjA3fDB8MHxw
aG90by1wYWdlfHx8fGVufDB8fHx8fA
%3D%3D",
  },
  {
    "title": "Galactic Art",
    "imageUrl":
"https://images.unsplash.com/photo-1
607349877492-8f2410658848?q=80&
w=1974&auto=format&fit=crop&ixlib=r
b-4.0.3&ixid=M3wxMjA3fDB8MHxwa
G90by1wYWdlfHx8fGVufDB8fHx8fA
%3D%3D",
  },
  {
    "title": "Abstract Flow",
    "imageUrl":
"https://plus.unsplash.com/premium_p
hoto-1661683887049-69e8ae0a6c92
?q=80&w=2071&auto=format&fit=cro
p&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8
MHxwaG90by1wYWdlfHx8fGVufDB8f
Hx8fA%3D%3D",
  },
  {
    "title": "Wildlife Patterns",
    "imageUrl":
"https://images.unsplash.com/photo-1
543946207-39bd91e70ca7?q=80&w=
1974&auto=format&fit=crop&ixlib=rb-4
.0.3&ixid=M3wxMjA3fDB8MHxwaG90
```

```
by1wYWdlfHx8fGVufDB8fHx8fA%3D
%3D",
},
];
}
```

```
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.black,
    body: Column(
      children: [
        const TopNavBar(),
        Expanded(
          child: GridView.builder(
            padding: const
EdgeInsets.all(8),
            gridDelegate: const
SliverGridDelegateWithFixedCrossAxisCount(
              crossAxisCount: 2,
              crossAxisSpacing: 8,
              mainAxisSpacing: 8,
              childAspectRatio: 0.8,
            ),
            itemCount: items.length,
            itemBuilder: (context, index) {
              return CustomCard(
                imageUrl:
items[index]["imageUrl"]!,
                title: items[index]["title"]!,
                avatarUrl:
"https://randomuser.me/api/portraits/men/${index + 1}.jpg",
              );
            },
          ),
        ],
      ),
      bottomNavigationBar:
BottomNavBar(currentIndex:
_selectedIndex, onTap:
_onNavTapped),
    );
}
```



## Custom\_card.dart

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

```
class CustomCard extends
```

```
StatelessWidget {
```

```
  final String imageUrl;
```

```
  final String title;
```

```
  final String avatarUrl;
```

```
  const CustomCard({
```

```
    Key? key,
```

```
    required this.imageUrl,
```

```
    required this.title,
```

```
    required this.avatarUrl,
```

```
  }) : super(key: key);
```

```
  @override
```

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

```
    return Container(
```

```
      margin: const
```

```
EdgeInsets.all(3.0),
```

```
      decoration: BoxDecoration(
```

```
        borderRadius:
```

```
BorderRadius.circular(12),
```

```
        color: Colors.black,
```

```
      ),
```

```
      child: Column(
```

```
        crossAxisAlignment:
```

```
CrossAxisAlignment.start,
```

```
        children: [
```

```
          // Image Section
```

```
          Expanded(
```

```
            child: Container(
```

```
              decoration: const
```

```
BoxDecoration(
```

```
                borderRadius:
```

```
BorderRadius.only(
```

```
                  topLeft:
```

```
Radius.circular(12),
```

```
                  topRight:
```

```
Radius.circular(12),
```

```
                ),
```

```
            ),
```

```
            child: ClipRRect(
```

```
              borderRadius: const
```

```
BorderRadius.only(
```

```
                topLeft:
```

```
Radius.circular(12),
```

```
                topRight:
```

```
Radius.circular(12),
```

```
              ),
```

```
              child: Image.network(
```

```
                imageUrl,
```

```
                fit: BoxFit.cover,
```

```
                width: double.infinity,
```

```
              ),
```

```
            ),
```

```
          ),
```

```
        ),
```

```
        // Title & Avatar
```

```
        Container(
```

```
          padding: const
```

```
EdgeInsets.symmetric(horizontal: 8.0,
```

```
vertical: 12.0),
```

```
          decoration: BoxDecoration(
```

```
            color: Colors.grey[900], //
```

```
Background color added
```

```
            borderRadius: const
```

```
BorderRadius.only(
```

```
              bottomLeft:
```

```
Radius.circular(12),
```

```
              bottomRight:
```

```
Radius.circular(12),
```

```
            ),
```

```
          ),
```

```
          child: Row(
```

```
            children: [
```

```
              // Avatar
```

```
              CircleAvatar(
```

```
                radius: 14,
```

```
                backgroundImage:
```

```
NetworkImage(avatarUrl),
```

```
              ),
```

```
              const SizedBox(width: 10),
```

```
              // Title
```

```
              Expanded(
```

```
                child: Text(
```

```
        title,  
        style: const TextStyle(  
          color: Colors.white,  
          fontSize: 16,  
          fontWeight:  
FontWeight.bold,  
        ),  
        overflow:  
TextOverflow.ellipsis,  
      ),  
    ),  
  ],  
),  
),  
  ],  
),  
);  
}  
}
```



## Creatives.dart

```
import 'package:flutter/material.dart';
import '../widgets/bottom_nav.dart';

class CreativesPage extends
StatelessWidget {
  final List<Map<String, dynamic>>
creatives = [
  {
    "name": "Lorenzo 🙌 Bocchi",
    "location": "Australia",
    "responseTime": "Responds quickly",
    "projects": 2,
    "featured": true,
    "profilePic":
"https://via.placeholder.com/50",
    "portfolio": [

"https://images.unsplash.com/photo-15478
91654-e66ed7ebb968?q=80&w=2070&au
o=format&fit=crop&ixlib=rb-4.0.3&ixid=M3
wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVu
fDB8fHx8fA%3D%3D",

"https://plus.unsplash.com/premium_photc
-1673240367277-e1d394465b56?q=80&w
=2069&auto=format&fit=crop&ixlib=rb-4.0.
3&ixid=M3wxMjA3fDB8MHxwaG90by1wY
WdlfHx8fGVuFDB8fHx8fA%3D%3D",

"https://images.unsplash.com/photo-15478
26039-bfc35e0f1ea8?q=80&w=1972&autc
=format&fit=crop&ixlib=rb-4.0.3&ixid=M3w
xMjA3fDB8MHxwaG90by1wYWdlfHx8fGV
ufDB8fHx8fA%3D%3D"

]
},
{
  "name": "Jeffrey Dirkse",
  "location": "Netherlands",
  "responseTime": "Responds quickly",
  "projects": 1,
  "featured": true,
```

```
"profilePic":
"https://via.placeholder.com/50",
"portfolio": [

"https://images.unsplash.com/photo-15478
91654-e66ed7ebb968?q=80&w=2070&aut
o=format&fit=crop&ixlib=rb-4.0.3&ixid=M3
wxMjA3fDB8MHxwaG90by1wYWdlfHx8fG
VufDB8fHx8fA%3D%3D",

"https://plus.unsplash.com/premium_photo
-1673240367277-e1d394465b56?q=80&w
=2069&auto=format&fit=crop&ixlib=rb-4.0.
3&ixid=M3wxMjA3fDB8MHxwaG90by1wY
WdlfHx8fGVuFDB8fHx8fA%3D%3D",

"https://images.unsplash.com/photo-15478
26039-bfc35e0f1ea8?q=80&w=1972&auto
=format&fit=crop&ixlib=rb-4.0.3&ixid=M3w
xMjA3fDB8MHxwaG90by1wYWdlfHx8fGV
ufDB8fHx8fA%3D%3D"

]
},
{
  "name": "Irene Demetri",
  "location": "Greece",
  "responseTime": "Responds quickly",
  "projects": 3,
  "featured": true,
  "profilePic":
"https://via.placeholder.com/50",
  "portfolio": [

"https://images.unsplash.com/photo-15478
91654-e66ed7ebb968?q=80&w=2070&aut
o=format&fit=crop&ixlib=rb-4.0.3&ixid=M3
wxMjA3fDB8MHxwaG90by1wYWdlfHx8fG
VufDB8fHx8fA%3D%3D",

"https://plus.unsplash.com/premium_photo
-1673240367277-e1d394465b56?q=80&w
=2069&auto=format&fit=crop&ixlib=rb-4.0.
3&ixid=M3wxMjA3fDB8MHxwaG90by1wY
WdlfHx8fGVuFDB8fHx8fA%3D%3D",
```

```

"https://images.unsplash.com/photo-15476
26039-bfc35e0f1ea8?q=80&w=1972&autc
=format&fit=crop&ixlib=rb-4.0.3&ixid=M3w
xMjA3fDB8MHxwaG90by1wYWdlfHx8fGV
ufDB8fHx8fA%3D%3D"
    ]
  }
];

```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.black,
    appBar: AppBar(
      backgroundColor: Colors.black,
      title: const Text("Hire Creatives",
        style: TextStyle(color: Colors.white,
          fontSize: 18,
          fontWeight: FontWeight.bold)),
      actions: [
        IconButton(
          icon: const Icon(Icons.search,
            color: Colors.white),
          onPressed: () {},
        ),
        IconButton(
          icon: const Icon(Icons.filter_list,
            color: Colors.white),
          onPressed: () {},
        ),
      ],
    ),
    body: ListView.builder(
      padding: const EdgeInsets.all(10),
      itemCount: creatives.length,
      itemBuilder: (context, index) {
        final creative = creatives[index];

        return Container(
          margin: const
EdgeInsets.only(bottom: 12),
          decoration: BoxDecoration(
            color: Colors.grey[900],

```

```

borderRadius:
BorderRadius.circular(12),
    ),
    child: Column(
      children: [
        // Portfolio Preview
        Stack(
          alignment:
Alignment.bottomCenter,
          clipBehavior: Clip.none,
          children: [
            Padding(
              padding: const
EdgeInsets.symmetric(
                horizontal: 10, vertical: 8),
              child: Row(
                mainAxisAlignment:
MainAxisAlignment.spaceEvenly,
                children:
(creative['portfolio'] as List<dynamic>)
                  .map<Widget>((image)
=>
                    Flexible(
                      child: ClipRRect(
                        borderRadius:
BorderRadius.circular(8),
                        child:
Image.network(image,
                          width: 110, height:
80, fit: BoxFit.cover),
                      ),
                    ))
                  .toList(),
                ),
              ),
            // Profile Picture with PRO
            Positioned(
              bottom: -25,
              child: Stack(
                clipBehavior: Clip.none,
                children: [
                  CircleAvatar(
                    radius: 30,

```



```

    ),
    const SizedBox(width: 8),
    Container(
      padding: const
EdgeInsets.symmetric(
      horizontal: 8, vertical:
4),
      decoration:
BoxDecoration(
        color: Colors.blue,
        borderRadius:
BorderRadius.circular(8),
      ),
      child: Text(
        "${creative['projects']}
Projects Completed",
        style: const TextStyle(
          color: Colors.white,
          fontSize: 12)),
    ),
  ],
),
],
),
),
],
),
);
},
),
// Bottom Navigation Bar
bottomNavigationBar:
BottomNavBar(currentIndex: 0, onTap:
(index) {}),
);
}
}

```

