# **EXPERIMENT NO: - 03**

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

#### Theory:

Flutter is a versatile open-source UI framework, which allows developers to build natively compiled applications for mobile, web, and desktop platforms from a single codebase. One of the key strengths of Flutter is its flexibility in creating highly customizable UIs. This practical focuses on incorporating essential visual elements—icons, images, and custom fonts—into a Flutter application. These elements enhance the visual appeal and usability of the app, providing an engaging experience for users.

A flutter app when built has both assets (resources) and code. Assets are available and deployed during runtime. The asset is a file that can include static data, configuration files, icons, and images. The Flutter app supports many image formats, such as JPEG, WebP, PNG, GIF, animated WebP/GIF, BMP, and WBMP.

Visual elements play a significant role in app development.

- Enhanced User Experience: Images and icons make your app visually appealing and user- friendly.
- Information Conveyance: They convey information quickly and intuitively. A well-chosen icon can replace lengthy text.
- Branding: Custom icons and images reinforce your app's branding, making it memorable.

#### Adding Icons in Flutter

Flutter provides built-in material design icons through the Icons class. Custom icons can also be added using third-party packages such as flutter launcher icons and font awesome flutter.

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

Adding Images in Flutter

Flutter supports images from three sources:

- 1. Assets (Stored locally in the project)
  - Place the image inside the assets/images folder in the project.
  - Declare the image in pubspec.yaml flutter:

assets:

- assets/images/sample.png
- Display the image in the app

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

2. Network (Fetched from the internet)

Displaying images from the internet or network is very simple. Flutter provides a built-in method Image.network to work with images from a URL. The Image.network method also allows you to use some optional properties, such as height, width, color, fit, and many more.

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

- 3. Memory or File (Stored on the device)
- Adding Custom Fonts in Flutter

By default, Flutter uses the Roboto font, but custom fonts can be added for a unique UI.

- Download the font and place it in the assets/fonts/ folder.
- Declare the font in pubspec.yaml
- Use the font in the app

```
Text(
'Custom Font Example',
style: TextStyle(fontFamily: 'CustomFont', fontSize: 24),
);
```

#### Code:

### 1. Landing\_page.dart

```
MaterialPageRoute(builder: (context) =>
 import 'package:flutter/material.dart';
                                                                 SignUpPage()),
 import 'sign_up_page.dart';
                                                                              );
 import 'sign_in_page.dart';
                                                                             },
                                                                             style:
 class LandingPage extends StatelessWidget
                                                                 ElevatedButton.styleFrom(
                                                                               backgroundColor: Colors.blue,
   @override
                                                                               padding:
  Widget build(BuildContext context) {
                                                                 EdgeInsets.symmetric(horizontal: 50,
    return Scaffold(
                                                                 vertical: 15),
     backgroundColor: Colors.white,
     body: Center(
                                                                             child: Text('Join now', style:
      child: SingleChildScrollView( //
                                                                 TextStyle(color: Colors.white)),
 Prevents overflow
                                                                            ),
       child: Padding(
         padding:
                                                                           SizedBox(height: 15),
 EdgeInsets.symmetric(horizontal: 20), //
 Adds margin from edges
                                                                           SizedBox(
         child: Column(
                                                                            width: double.infinity,
          mainAxisAlignment:
                                                                 child: OutlinedButton.icon(
 MainAxisAlignment.center,
                                                                             onPressed: () {},
          crossAxisAlignment:
                                                                             icon:
 CrossAxisAlignment.center, // Centers
                                                                 Image.asset('assets/google_logo.png',
 content
                                                                 height: 30),
          children: [
                                                                             label: Text('Join with Google'),
           Align(
                                                                             style:
             alignment: Alignment.centerLeft,
                                                               OutlinedButton.styleFrom(
             child:
                                                                             padding:
 Image.asset("assets/linkedin_logo.png",
                                                               EdgeInsets.symmetric(vertical: 15),
 height: 120),
           SizedBox(height: 5),
           SizedBox(
                                                                         SizedBox(height: 15),
             width: double.infinity,
                                                                         TextButton(
 child:
                                                                          onPressed: () {
 Image.asset("assets/on_boarding_1.jpg",
                                                                            Navigator.push(
 height: 400, fit: BoxFit.cover),
                                                                             context,
                                                                             MaterialPageRoute(builder:
const SizedBox(
                                                               (context) => SignInPage()),
             height: 10,
                                                                             );
           Text(
                                                                            child: Text('Sign In', style:
             'Find and land your next job',
                                                               TextStyle(color: Colors.blue)),
             textAlign: TextAlign.center,
             style: TextStyle(fontSize: 18,
 fontWeight: FontWeight.bold),
           SizedBox(height: 40),
           SizedBox(
             width: double.infinity,
child: ElevatedButton(
              onPressed: () {
               Navigator.push(
                context,
```

### 2. Network\_page.dart

```
import 'package:flutter/material.dart';
class NetworkPage extends
StatelessWidget {
 final List<Map<String, dynamic>>
connections = [
   "name": "John Doe",
   "job": "Flutter Developer & ...",
   "connections": "13 mutual connections",
   "image":
"https://media.istockphoto.com/id/14378168
97/photo/business-woman-manager-or-
human-resources-portrait-for-career-
success-company-we-are-
hiring.jpg?s=612x612&w=0&k=20&c=tyLvtz
utRh22j9GqSGI33Z4HpIwv9vL_MZw_xOE1
9NQ="
  },
   "name": "Carig C. Watson",
   "job": "Senior Software Eng...",
   "connections": "22 mutual connections",
   "image":
"https://www.shutterstock.com/image-
photo/head-shot-portrait-close-smiling-
600nw-1714666150.jpg"
   "name": "Diana Joe",
   "job": "UX/UI Researcher & ...",
   "connections": "52 mutual connections",
   "image":
"https://img.fixthephoto.com/blog/images/ga
llery/news preview mob image preview
11368.png"
  },
   "name": "Stephan Covey",
   "job": "Android Developer a...",
   "connections": "13 mutual connections",
   "image":
"https://www.shutterstock.com/image-
photo/profile-picture-smiling-successful-
young-260nw-2040223583.jpg"
  },
```

```
"name": "John Doe",
   "job": "Flutter Developer & ...",
   "connections": "13 mutual connections",
   "image":
"https://media.istockphoto.com/id/14378168
97/photo/business-woman-manager-or-
human-resources-portrait-for-career-
success-company-we-are-
hiring.jpg?s=612x612&w=0&k=20&c=tyLvtz
utRh22j9GqSGI33Z4Hplwv9vL MZw xOE1
9NQ="
  },
   "name": "Carig C. Watson",
   "job": "Senior Software Eng...",
   "connections": "22 mutual connections",
   "image":
"https://www.shutterstock.com/image-
photo/head-shot-portrait-close-smiling-
600nw-1714666150.jpg"
  },
   "name": "Diana Joe",
   "job": "UX/UI Researcher & ...",
   "connections": "52 mutual connections",
   "image":
"https://img.fixthephoto.com/blog/images/ga
llery/news_preview_mob_image__preview_
11368.png"
  },
   "name": "Stephan Covey",
   "job": "Android Developer a...",
   "connections": "13 mutual connections",
   "image":
"https://www.shutterstock.com/image-
photo/profile-picture-smiling-successful-
young-260nw-2040223583.jpg"
  },
   "name": "John Doe",
   "job": "Flutter Developer & ...",
   "connections": "13 mutual connections",
   "image":
"https://media.istockphoto.com/id/14378168
97/photo/business-woman-manager-or-
human-resources-portrait-for-career-
success-company-we-are-
hiring.jpg?s=612x612&w=0&k=20&c=tyLvtz
utRh22j9GqSGI33Z4Hplwv9vL_MZw_xOE1
9NQ="
  },
```

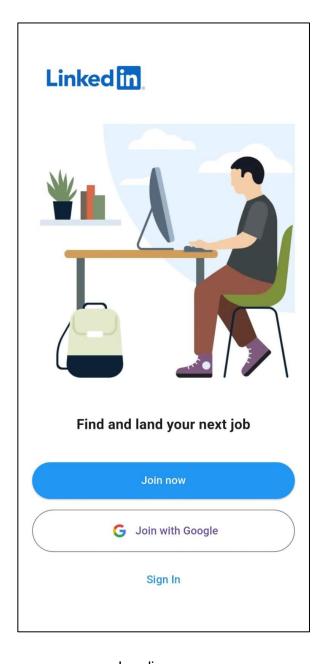
```
height: 80,
   "name": "Carig C. Watson",
                                                                             width: 80.
   "job": "Senior Software Eng...",
                                                                             fit: BoxFit.cover,
   "connections": "22 mutual connections",
                                                                           ),
   "image":
"https://www.shutterstock.com/image-
                                                                          SizedBox(height: 8),
photo/head-shot-portrait-close-smiling-
                                                                          Text(
600nw-1714666150.jpg"
                                                                            connections[index]['name'],
  },
                                                                            style: TextStyle(fontWeight:
                                                               FontWeight.bold, fontSize: 16),
 @override
                                                               Padding(
 Widget build(BuildContext context) {
                                                                            padding: const
  return Scaffold(
                                                               EdgeInsets.symmetric(horizontal: 8.0),
   appBar: AppBar(
                                                                            child: Text(
     backgroundColor: Colors.white,
                                                                             connections[index]['job'],
     elevation: 0,
                                                                             textAlign: TextAlign.center,
     title: TextField(
                                                                             style: TextStyle(fontSize: 12,
      decoration: InputDecoration(
                                                               color: Colors.grey),
       hintText: "Connect with people",
                                                                           ),
       border: InputBorder.none,
                                                                          SizedBox(height: 4),
      ),
                                                                          Text(
    ),
                                                               connections[index]['connections'],
                                                                            style: TextStyle(fontSize: 12,
   body: Padding(
                                                               color: Colors.grey),
     padding: const EdgeInsets.all(8.0),
     child: GridView.builder(
                                                                          Spacer(),
      gridDelegate:
                                                                          ElevatedButton(
SliverGridDelegateWithFixedCrossAxisCou
                                                                            style:
nt(
                                                               ElevatedButton.styleFrom(
       crossAxisCount: 2,
                                                                             backgroundColor:
       crossAxisSpacing: 8.0,
                                                               Colors.white,
       mainAxisSpacing: 8.0,
                                                                             side: BorderSide(color:
       childAspectRatio: 0.8,
                                                               Colors.blue),
                                                                             shape:
itemCount: connections.length,
                                                               RoundedRectangleBorder(
      itemBuilder: (context, index) {
                                                                              borderRadius:
       return Card(
                                                               BorderRadius.circular(20),
        shape: RoundedRectangleBorder(
                                                                             ),
          borderRadius:
                                                                            ),
BorderRadius.circular(10),
                                                                            onPressed: () {},
        ),
                                                                            child: Text("Connect", style:
        child: Column(
                                                               TextStyle(color: Colors.blue)),
          crossAxisAlignment:
CrossAxisAlignment.center,
                                                                          SizedBox(height: 8),
         children: [
           SizedBox(height: 16),
ClipRRect(
            borderRadius:
BorderRadius.circular(50),
            child: Image.network(
             connections[index]['image'],
```

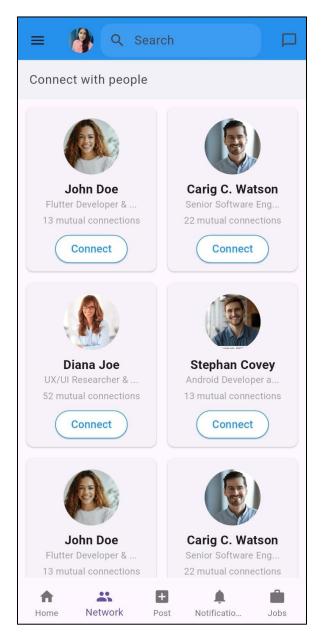
## Pubspec.yaml

## assets:

- assets/sannidhi\_illusions.jpg
- assets/linkedin\_logo.png
- assets/google\_logo.png
- assets/on\_boarding\_1.jpg
- assets/internship.jpg

# **Output:**





Landing page

Network page