

EXPERIMENT NO:3

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

Theory:

Including icons, images, and custom fonts in a Flutter app allows developers to enhance the visual appeal and functionality of their applications. Here's a brief overview of how to include these assets:

1. Icons:

- a. Flutter provides built-in support for icons through the Icons class, which includes a wide range of Material Design icons.
- b. You can use the Icon widget to display icons in your app. Simply specify the desired icon using the Icons class, along with properties like size and color.

2. Images:

- a. To include images in a Flutter app, you can add image files to the assets directory within your project.
- b. Use the Image widget to display images. Specify the image asset path using the Image.asset() constructor.

3. Fonts:

- a. Custom fonts can be added to a Flutter app by including font files (e.g., .ttf or .otf) in the project's fonts directory.
- b. Declare the custom fonts in the pubspec.yaml file under the flutter section using the fonts property.
- c. Once declared, you can apply the custom font to text in your app using the fontFamily property in the TextStyle widget.

Here's a summarized step-by-step guide:

1. Add Icons:

- a. Use the Icon widget with the desired icon from the Icons class.
- b. Customize the icon size and color as needed.

2. Add Images:

- a. Place image files in the assets directory of your Flutter project.
- b. Use the Image.asset() widget to load images from the asset bundle.
- c. Specify the image asset path as a parameter to the Image.asset() constructor.

3. Add Fonts:

- a. Place custom font files in the fonts directory of your Flutter project.

- b. Declare the custom fonts in the pubspec.yaml file under the flutter section using the fonts property.
- c. Apply the custom font to text using the fontFamily property in the TextStyle widget

CODE:

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

```
void main() {  
  runApp(MyApp());  
}
```

```
class MyApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Flutter Icons, Images, and Fonts Example',  
      theme: ThemeData(  
        primarySwatch: Colors.blue,  
      ),  
      home: MyHomePage(),  
    );  
  }  
}
```

```
class MyHomePage extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        title: Text('Expt-3'),  
      ),  
      body: Center(  
        child: Column(  
          mainAxisAlignment: MainAxisAlignment.center,  
          children: <Widget>[  
            Text(  
              'Expt-3',  
            ),  
          ],  
        ),  
      ),  
    );  
  }  
}
```

```
'Flutter-Expt:3 Mohit Mandhyani',
style: TextStyle(
  fontSize: 40,
  color: const Color.fromARGB(255, 155, 244, 54),
),
),
Icon(
  Icons.star, // Changed to star icon
  size: 50,
  color: Color.fromARGB(255, 45, 13, 161),
),
 SizedBox(height: 20),
Image.asset(
  'assets/images/nike_1.jpg',
  width: 100,
  height: 100,
),
SizedBox(height: 20),
Text(
  'Custom Font Example',
  style: TextStyle(
    fontFamily: 'Arial',
    fontSize: 24,
    fontWeight: FontWeight.bold,
  ),
),
),
],
),
),
);
}
```



CONCLUSION: In this lab we have implemented included icons, images, fonts in Flutter app.