

MAD & PWA LAB

EXP- 3

Name : Himanshu Lohote

Class: D15A

Roll No. 32

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

Theory:

In Flutter, you can include icons, images, and custom fonts to enhance the visual appeal and functionality of your app. Here's a brief overview of how you can integrate these assets into your Flutter application:

1. Icons:

Flutter provides a wide range of icons through its `Icons` class, which includes material design icons. To use these icons, you can simply import the `material_icons` package in your `pubspec.yaml` file. For example:

```
``yaml
dependencies:
  flutter:
    sdk: flutter
  cupertino_icons: ^1.0.0
``
```

Then, in your Dart code, you can use these icons directly:

```
``dart
Icon(Icons.favorite);
``
```

Additionally, Flutter allows you to use custom icons. You can add custom icon files (like SVG or PNG) to your project and reference them using the `Image.asset` widget.

2. Images:

To include images in your Flutter app, you can place the image files (e.g., PNG, JPEG) in the project's `assets` directory. Then, you need to specify these assets in your `pubspec.yaml` file:

```
``yaml
flutter:
  assets:
    - assets/image1.png
    - assets/image2.png
...`
```

After adding the assets, you can use them in your Flutter code with the `Image.asset` widget:

```
``dart
Image.asset('assets/image1.png');
...`
```

Flutter also supports loading images from the network using the `Image.network` widget.

3. Fonts:

To include custom fonts in your Flutter app, you first need to add the font files (e.g., TTF, OTF) to your project's `fonts` directory. Then, specify these fonts in your `pubspec.yaml` file:

```
``yaml
flutter:
  fonts:
    - family: CustomFont
      fonts:
        - asset: fonts/custom_font.ttf
...`
```

After adding the fonts, you can use them in your Flutter application by specifying the font family in the `style` property of text widgets:

```
``dart
```

```
Text(  
  'Custom Font Example',  
  style: TextStyle(  
    fontFamily: 'CustomFont',  
    fontSize: 16.0,  
  ),  
);  
``
```

Make sure to adjust the font family name to match the one specified in the `pubspec.yaml` file.

By following these steps, you can easily integrate icons, images, and custom fonts into your Flutter app, enhancing its visual appearance and user experience.

Code:

```
import 'package:flutter/material.dart';  
  
void main() {  
  runApp(const MyApp());  
}  
  
class MyApp extends StatelessWidget {  
  const MyApp({Key? key}) : super(key: key);  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Welcome to Flutter',  
      home: Scaffold(  
        appBar: AppBar(  
          title: const Text('MAD PWA Lab - Exp 3  
\\nHimanshu Lohote_D15A_32'),
```

```
    ),  
    body: Center(  
      child: Image.asset('assets/Zomato.jpg'),  
    ),  
  ),  
);  
}
```

Output:

