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ROLL NO.:52 CLASS:D15A/BATCH C

#### EXP 3

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

#### **THEORY:**

Including icons, images, and custom fonts in a Flutter app is a common requirement to enhance the visual appeal and functionality of the application. Let's discuss each of these elements:

#### 1. Icons:

Icons in Flutter are typically represented by the Icon widget. Flutter provides a set of built-in icons through the Icons class, but you can also use custom icons or those from external icon packs.

How to Include Icons:

## **Built-in Icons:**

Icon(Icons.star);

## **Custom Icons:**

Flutter allows you to use custom icons in various formats, such as SVG or PNG. You can use the Image.asset or Image.network widget to display custom icons.

## 2. Images:

Displaying images is a crucial part of app development. Flutter supports various image formats, including PNG, JPEG, GIF, and WebP.

How to Include Images:

### Asset Images:

• Place your images in the assets folder of your project, and then use the Image.asset widget to display them.

Image.asset('assets/images/my\_image.png');

## 3. Fonts:

Custom fonts allow you to create a unique typographic style for your app. Flutter supports TrueType (TTF) and OpenType (OTF) fonts.

How to Include Fonts:

## Adding Fonts to pubspec.yaml:

Add your font files to the fonts section of the pubspec.yaml file.

flutter:

fonts:

- family: MyCustomFont

tonts:

- asset: assets/fonts/my\_custom\_font.ttf

## **Using Custom Fonts:**

Apply custom fonts using the Text widget.

```
Text(
'Hello, World!',
style: TextStyle(
fontFamily: 'MyCustomFont',
fontSize: 20,
),
);
```

#### CODE:

// sidebar.dart

```
import 'package:flutter/material.dart';
class SlimSidebar extends StatelessWidget {
  final Widget child;
 const SlimSidebar({required this.child, super.key});
 Widget build(BuildContext context) {
    return Row(
        Container (
          width: 80,
          color: Colors.grey[900],
          child: ListView(
              ChannelTile(imagePath:
'assets/images/profile image1.jpg'),
             ChannelTile(imagePath:
assets/images/banner1.jpg'),
              ChannelTile(imagePath:
'assets/images/profile image.jpg'),
            ],
          ),
        ),
        Expanded (
```

```
],
class ChannelTile extends StatelessWidget {
 final String imagePath;
 const ChannelTile({required this.imagePath, super.key});
 Widget build(BuildContext context) {
   return ListTile(
     contentPadding: EdgeInsets.zero,
     title: ClipOval(
       child: Container(
         height: 60,
         width: 60,
         decoration: BoxDecoration(
            shape: BoxShape.circle, // Ensures a circular shape
            image: DecorationImage(
             image: AssetImage(imagePath),
             fit: BoxFit.cover,
           ),
         ),
       ),
```

#### //pubspec.yaml

```
name: discord
description: A new Flutter project.

version: 1.0.0+1
environment:
    sdk: ">=3.0.0 <4.0.0"

dependencies:
    flutter:
        sdk: flutter

dev_dependencies:
    flutter_test:</pre>
```

#### //home.dart

```
import 'package:flutter/material.dart';
import 'package:discord/pages/sidebar.dart'; // Adjust the
import path based on your project structure // Adjust the import
class HomePage extends StatelessWidget {
 const HomePage({super.key});
  Widget build(BuildContext context) {
    return Scaffold(
     body: SlimSidebar(
        child: SingleChildScrollView(
          child: Column (
            children: [
              Container(
                width: MediaQuery.of(context).size.width,
                height: 200,
                decoration: const BoxDecoration(
                  image: DecorationImage(
```

```
image:
AssetImage('assets/images/banner1.jpg'),
                    fit: BoxFit.cover,
                  ),
                ),
                child: Stack(
                    Container (
                      padding: const EdgeInsets.fromLTRB(10, 50,
10, 10),
                      alignment: Alignment.bottomLeft,
                      child: const CircleAvatar(
AssetImage('assets/images/profile image1.jpg'),
                        radius: 40,
                      ),
                    ),
                    Positioned(
                      top: 10,
                      right: 10,
                      child: Container(
                         decoration: BoxDecoration(
                           color: Colors.grey[400],
                           shape: BoxShape.circle,
                         child: IconButton(
                           icon: const Icon (Icons.settings,
color: Colors.white),
                          onPressed: () {},
                      ),
                  ],
                ),
              Container (
                margin: const EdgeInsets.all(16.0),
                padding: const EdgeInsets.all(16.0),
                decoration: BoxDecoration(
                  color: const Color.fromARGB(255, 39, 38, 38),
                  borderRadius: BorderRadius.circular(10.0),
```

```
alignment: Alignment.centerLeft,
                child: Column (
                  crossAxisAlignment: CrossAxisAlignment.start,
                    const Text(
                       'Susmita Santi',
                       style: TextStyle(
                        fontSize: 20,
                        color: Colors.white,
                         fontWeight: FontWeight.bold,
                       ),
                    ),
                    const SizedBox(height: 4),
                    const Text(
                       'susmitasanti04',
                       style: TextStyle(
                        fontSize: 16,
                        color: Colors.grey,
                      ),
                    ),
                    const SizedBox(height: 10),
                    const Text(
                       'This is a short bio of myself. It like
                       style: TextStyle(
                         fontSize: 16,
                         color: Colors.grey,
                       ),
                    ),
                    const SizedBox(height: 10),
                    Row (
                       children: [
                         Expanded (
                           child: ElevatedButton.icon(
                             onPressed: () {},
                             icon: const Icon(Icons.edit),
                             label: const Text('Edit Status'),
                             style: ElevatedButton.styleFrom(
                               backgroundColor:
Colors.grey.shade300,
                             ),
                           ),
                         ),
                         const SizedBox(width: 10),
                         Expanded (
```

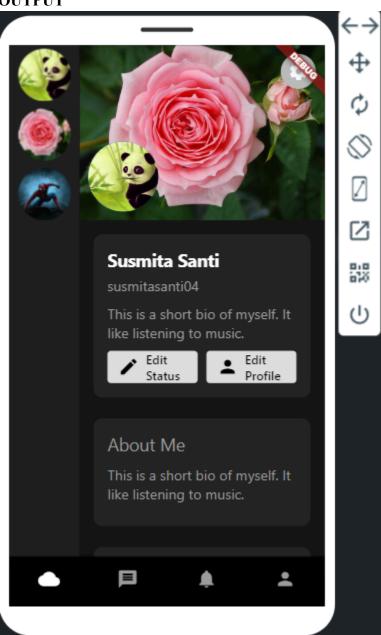
```
child: ElevatedButton.icon(
                             onPressed: () {},
                             icon: const Icon(Icons.person),
                             label: const Text('Edit Profile'),
                             style: ElevatedButton.styleFrom(
                               backgroundColor:
Colors.grey.shade300,
                               foregroundColor: Colors.black,
                        ),
                      ],
                    ),
                  ],
              ),
              Container (
                margin: const EdgeInsets.only(
16.0),
                padding: const EdgeInsets.all(16.0),
                decoration: BoxDecoration(
                  color: const Color.fromARGB(255, 39, 38, 38),
                  borderRadius: BorderRadius.circular(10.0),
                alignment: Alignment.centerLeft,
                  crossAxisAlignment: CrossAxisAlignment.start,
                  children: [
                    Text(
                      'About Me',
                      style: TextStyle(
                        fontSize: 20,
                        color: Colors.grey,
                      ),
                    ),
                    SizedBox (height: 10),
                    Text(
                       'This is a short bio of myself. It like
                      style: TextStyle(
                        fontSize: 16,
                        color: Colors.grey,
                      ),
                    ),
```

```
SizedBox (height: 10),
                  ],
              ),
              Container (
                margin: const EdgeInsets.only(
                    left: 16.0, right: 16.0, top: 8.0, bottom:
16.0),
                padding: const EdgeInsets.all(16.0),
                decoration: BoxDecoration(
                  color: const Color.fromARGB(255, 39, 38, 38),
                  borderRadius: BorderRadius.circular(10.0),
                ),
                child: Row(
                  crossAxisAlignment: CrossAxisAlignment.start,
                  children: [
                    Container (
                      width: 100.0,
                      height: 100.0,
                      decoration: BoxDecoration(
                         image: const DecorationImage(
                           image:
AssetImage('assets/images/banner1.jpg'),
                          fit: BoxFit.cover,
                        borderRadius:
BorderRadius.circular(8.0),
                      ),
                    ),
                    const SizedBox(width: 16.0),
                    const Expanded(
                      child: Column (
                        crossAxisAlignment:
CrossAxisAlignment.start,
                         children: [
                           Text(
                             style: TextStyle(
                               fontSize: 18.0,
                               fontWeight: FontWeight.bold,
                               color: Colors.white,
```

```
),
                          SizedBox(height: 8.0),
                             'The description of Rose in the
corresponding picture.',
                             style: TextStyle(
                               fontSize: 16.0,
                               color: Colors.white,
                             ),
                          ),
                        ],
                  ],
               ),
           ],
          ),
       ),
      bottomNavigationBar: BottomNavigationBar(
        type: BottomNavigationBarType.fixed,
        backgroundColor: Colors.black87,
        selectedItemColor: Colors.white,
        unselectedItemColor: Colors.grey,
        showSelectedLabels: false,
        showUnselectedLabels: false,
        items: const [
          BottomNavigationBarItem(
            icon: Icon(Icons.cloud),
            label: 'Servers',
          BottomNavigationBarItem(
            icon: Icon(Icons.message),
          BottomNavigationBarItem(
            icon: Icon(Icons.notifications),
            label: 'Notifications',
          BottomNavigationBarItem(
            icon: Icon(Icons.person),
          ),
        ],
```

```
);
}
```

# **OUTPUT**



# **CONCLUSION:**

In conclusion, enhancing the visual appeal and functionality of a Flutter app involves incorporating icons, images, and custom fonts.

Icons: Utilize the Icon widget for built-in icons and explore custom icons using various formats.

Images: Display images with the Image.asset widget for local assets or Image.network for network images.

Fonts: Include custom fonts in the pubspec.yaml file and apply them using the TextStyle property in the Text widget.