

**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

      fonts:

        - 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:

// **pages/chatpage.dart**

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

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

```
  @override  
  _ChatPageState createState() => _ChatPageState();  
}
```

```
class _ChatPageState extends State<ChatPage> {  
  final TextEditingController _messageController = TextEditingController();
```

```
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      backgroundColor: Colors.black,  
      appBar: AppBar(  
        backgroundColor: Colors.black,  
        title: Row(  
          children: [  
            const Text('Discord'),  
            const SizedBox(width: 8.0),  
            const Icon(Icons.arrow_drop_down),  
          ],  
        ),  
        actions: [  
          IconButton(  

```

```

        onPressed: () {},
        icon: const Icon(Icons.search),
      ),
      IconButton(
        onPressed: () {},
        icon: const Icon(Icons.add),
      ),
      IconButton(
        onPressed: () {},
        icon: const Icon(Icons.settings),
      ),
    ],
  ),
  body: Column(
    children: [
      // Chat Messages
      Expanded(
        child: ListView.builder(
          reverse: true,
          itemCount: 20,
          itemBuilder: (context, index) {
            return ChatMessage(
              isCurrentUser: index % 2 == 0,
              username: 'Username $index',
              message: 'Message $index',
              index: index,
            );
          },
        ),
      ),
      // Chat Input Field
      Container(
        padding: const EdgeInsets.symmetric(horizontal: 8.0),
        color: Colors.black,
        child: Row(
          children: [
            IconButton(
              onPressed: () {
                // Action for the plus icon

```

```

    },
    icon: const Icon(Icons.add, color: Colors.white),
  ),
  IconButton(
    onPressed: () {
      // Action for the gift icon
    },
    icon: const Icon(Icons.card_giftcard, color: Colors.white),
  ),
  Expanded(
    child: TextField(
      controller: _messageController,
      style: TextStyle(color: Colors.white), // Text color
      decoration: InputDecoration(
        hintText: 'Type your message...',
        hintStyle:
          TextStyle(color: Colors.white54), // Hint text color
        fillColor: Colors.grey[850],
        filled: true,
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(20.0),
          borderSide: BorderSide.none,
        ),
      ),
    ),
  ),
  ),
  IconButton(
    onPressed: () {
      // Action for the emoji icon
    },
    icon: const Icon(Icons.emoji_emotions_outlined,
      color: Colors.white),
  ),
  IconButton(
    onPressed: () {
      // Action for the mic icon
    },
    icon: const Icon(Icons.mic_none, color: Colors.white),
  ),
],

```

```

    ),
  ),
],
),
);
}
}

```

```

class ChatMessage extends StatelessWidget {

```

```

  final bool isCurrentUser;
  final String username;
  final String message;
  final int index;

```

```

  const ChatMessage({
    Key? key,
    required this.isCurrentUser,
    required this.username,
    required this.message,
    required this.index,
  }) : super(key: key);

```

```

  Color getUsernameColor(int index) {
    // You can customize this logic to generate different colors based on the index
    return index % 2 == 0 ? Colors.blue : Colors.green;
  }

```

```

@override

```

```

Widget build(BuildContext context) {
  return Container(
    margin: const EdgeInsets.symmetric(vertical: 8.0, horizontal: 16.0),
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        Row(
          children: [
            Container(
              width: 32.0, // Overall size of the container
              height: 32.0,
              decoration: BoxDecoration(

```

```

        color: getUsernameColor(index), // Background color
        shape: BoxShape.circle,
      ),
      child: Center(
        child: Image.asset(
          'assets/images/discord_logo1.png', // Make sure you have this asset in your project
          width: 25.0, // Size of the logo
          height: 25.0,
          color: Colors.white,
        ),
      ),
    ),
    const SizedBox(width: 8.0),
    Text(
      username,
      style: TextStyle(
        color: isCurrentUser ? Colors.blue : getUsernameColor(index),
      ),
    ),
  ],
),
const SizedBox(height: 4.0),
Text(
  message,
  style: TextStyle(
    color: isCurrentUser ? Colors.white : Colors.grey,
  ),
),
],
),
);
}
}

```

### **//pubspec.yaml**

```

name: discord
description: A new Flutter project.
version: 1.0.0+1
environment:
  sdk: ">=3.0.0 <4.0.0"
dependencies:

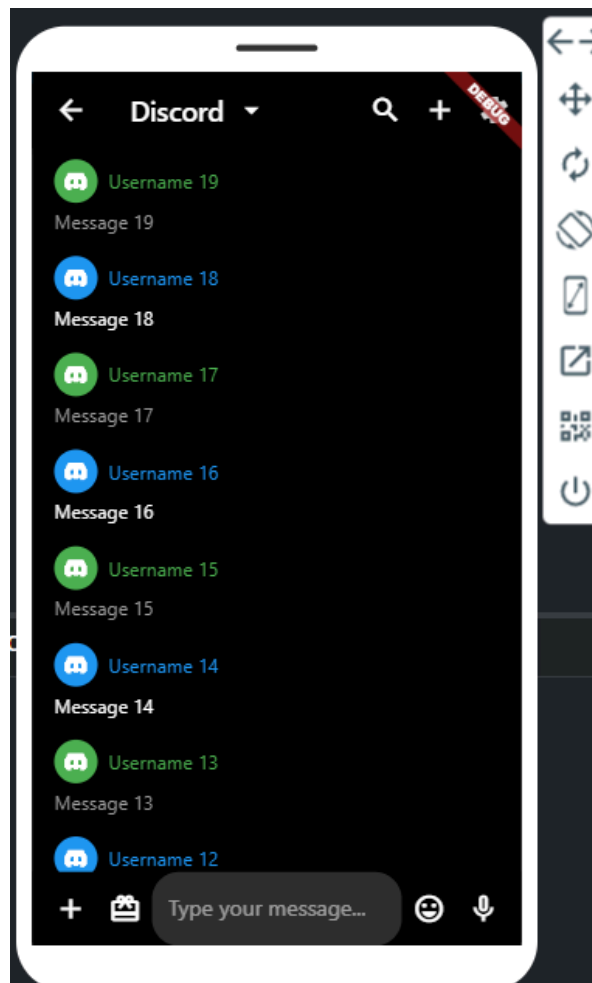
```

```
flutter:  
  sdk: flutter
```

```
dev_dependencies:  
  flutter_test:  
    sdk: flutter  
  flutter_lints: ^2.0.2
```

```
flutter:  
  uses-material-design: true  
  assets:  
    - assets/images/discord_logo1.png  
    - assets/images/banner1.jpg  
    - assets/images/profile_image1.jpg  
    - assets/images/profile_image.jpg
```

## OUTPUT



**CONCLUSION:**

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

1. Icons: Utilize the Icon widget for built-in icons and explore custom icons using various formats.
2. Images: Display images with the Image.asset widget for local assets or Image.network for network images.
3. Fonts: Include custom fonts in the pubspec.yaml file and apply them using the TextStyle property in the Text widget.