**AIM** :  To design Flutter UI by including common widgets.

**THEORY** :
To build any application we start with widgets – The building block of flutter applications. Widgets describe what their view should look like given their current configuration and state. It includes a text widget, row widget, column widget, container widget, and many more. Widgets: Each element on a screen of the Flutter app is a widget. The view of the screen completely depends upon the choice and sequence of the widgets used to build the apps. And the structure of the code of an apps is a tree of widgets.

Row and Column are the two most important and powerful widgets in Flutter. These widgets let you align children horizontally and vertically as per the requirement
There are broadly two types of widgets in the flutter:
1. Stateless Widget
2. Stateful Widget

Description of the widgets used are as follows:
● Scaffold – Implements the basic material design visual layout structure.
● App-Bar – To create a bar at the top of the screen.
● Text  To write anything on the screen.
● Container – To contain any widget.
● Center – To provide center alignment to other widgets.

Some of the commonly used widgets are :
1. Container:
   - A box model that can contain other widgets, providing customization for size, padding, margin, and decoration.

2. Row:
   - A widget that displays its children in a horizontal array.

3. Column:
   - A widget that displays its children in a vertical array.

4. ListView:
   - A scrollable list of widgets.

5. Stack:
   - A widget that overlays multiple children widgets.

6. AppBar:

- A material design app bar that typically contains the page title and some action buttons.

7. Scaffold:
   - Implements the basic material design layout structure, providing a top bar (app bar), a bottom bar, and a body.

8. Text:
   - A widget for displaying a short piece of text.

9. Image:
   - A widget for displaying images.

10. Button Widgets (E.g., ElevatedButton, TextButton, OutlinedButton):
    - Widgets for creating interactive buttons with different styles.

11. TextField:
    - A widget for user input of text.

12. Card:
    - A material design card. A card has slightly rounded corners and a shadow.

**CODE** :

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

void main() {
 runApp(AccountApp());
}

class AccountApp extends StatelessWidget
{
 @override
 Widget build(BuildContext context) {
   return MaterialApp(
     home: Account(),
   );
 }
}

class Account extends StatelessWidget {
 const Account({Key? key}) : super(key:
key);

 @override
 Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.white24,
    appBar: AppBar(
     centerTitle: true,
     backgroundColor: Colors.white24,
     leading: IconButton(
      onPressed: () {
       Navigator.pop(context);
      },
      icon: Icon(Icons.arrow_back),
     ),
     title: Text(
      "Settings",
      style: TextStyle(color: Colors.white),
     ),
    ),
    body: SafeArea(
     child: Padding(
      padding: EdgeInsets.fromLTRB(10,
20, 10, 0),
```

```
          child: SingleChildScrollView(
            child: Column(
              crossAxisAlignment:
CrossAxisAlignment.start,
              children: [

_buildSectionHeader("PROFILE"),
                SizedBox(height: 2),
                _buildProfileButton(
                  label: "My Profile",
                  onPressed: () {
                    print("You pressed Profile
Button");
                  },
                ),
                SizedBox(height: 2),
                _buildProfileButton(
                  label: "My  Awards",
                  onPressed: () {
                    print("You pressed Awards
Button");
                  },
                ),
                SizedBox(height: 10),

_buildSectionHeader("FEATURES"),
                SizedBox(height: 10),
                _buildFeatureButton(
                  label: "LeaderBoard \t \t \t \t \t",
                  icon: Icons.star,
                  onPressed: () {
                    print("You pressed
Leaderboard Button");
                  },
                ),
                SizedBox(height: 2),
                _buildFeatureButton(
                  label: "Edit Profile",
                  icon: Icons.block,
                  onPressed: () {
                    print("You pressed Blocked
Profile Button");
                  },
                ),

                SizedBox(height: 10),

_buildSectionHeader("SETTINGS"),
                SizedBox(height: 10),
                _buildFeatureButton(
                  label: "Notifications \t \t",
                  icon: Icons.notifications,
                  onPressed: () {
                    print("You pressed
Notifications Button");
                  },
                ),
                SizedBox(height: 2),
                _buildFeatureButton(
                  label: "Time Zone \t \t \t \t \t \t \t
\t \t \t   ",
                  icon: Icons.access_time,
                  onPressed: () {
                    print("You pressed Time Zone
Button");
                  },
                ),
                SizedBox(height: 2),
                _buildFeatureButton(
                  label: "Others \t \t\t\t\t\t\t\t\t",
                  icon: Icons.settings_suggest,
                  onPressed: () {
                    print("You pressed Others
Button");
                  },
                ),
                SizedBox(height: 10),

_buildSectionHeader("ABOUT"),
                SizedBox(height: 10),
                _buildFeatureButton(
                  label: "Share\t \t \t",
                  icon: Icons.share,
                  onPressed: () {
                    print("You pressed Share
BeReal Button");
                  },
                ),
                SizedBox(height: 2),
```
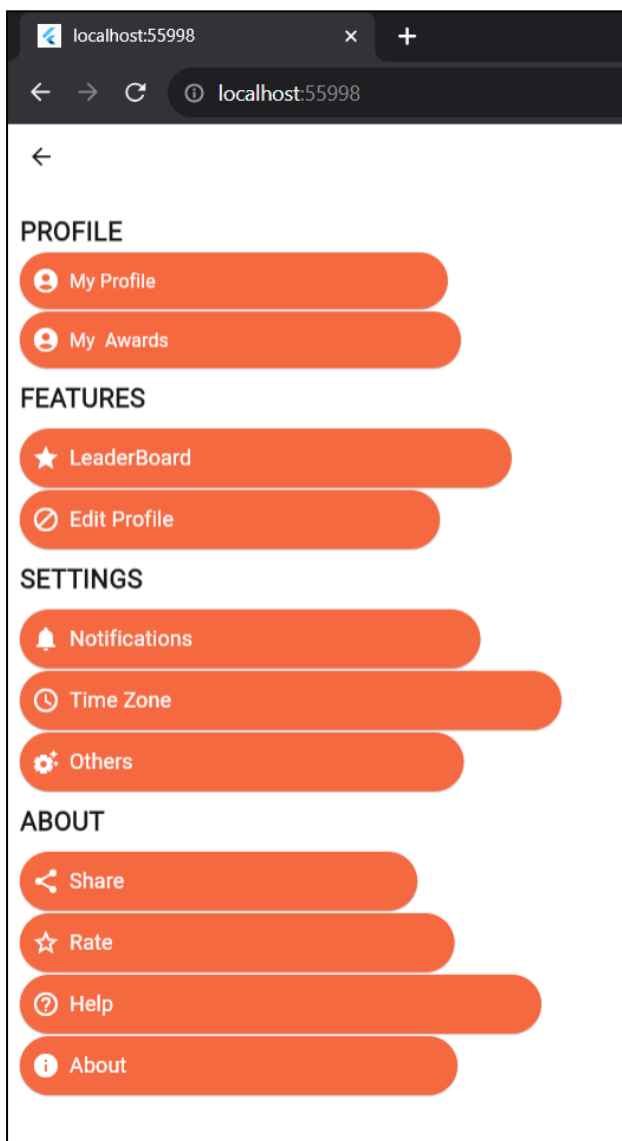
```dart
          _buildFeatureButton(
            label: "Rate \t\t\t\t \t \t  \t  ",
            icon: Icons.star_outline,
            onPressed: () {
              print("You pressed Rate
Button");
            },
          ),
          SizedBox(height: 2),
          _buildFeatureButton(
            label: "Help \t \t \t \t \t \t \t \t \t
\t \t \t  ",
            icon: Icons.help_outline,
            onPressed: () {
              print("You pressed Help
Button");
            },
          ),
          SizedBox(height: 2),
          _buildFeatureButton(
            label: "About \t \t\t\t\t\t\t\t\t",
            icon: Icons.info,
            onPressed: () {
              print("You pressed About
Button");
            },
          ),
        ],
      ),
    ),
  ),
 );
}

 Widget _buildSectionHeader(String title)
{
  return Row(
    children: [
      Text(
        title,
        style: TextStyle(fontSize: 22,
fontWeight: FontWeight.bold),
      ),
      VerticalDivider(
        color: Colors.transparent,
        thickness: 1,
        width: 10, // Adjust the width as
needed
      ),
    ],
  );
}

 Widget _buildProfileButton({required
String label, required VoidCallback
onPressed}) {
  return Align(
    alignment: Alignment.topLeft,
    child: ElevatedButton.icon(
      onPressed: onPressed,
      icon: Icon(
        Icons.account_circle,
        color: Colors.white,
      ),
      label: Text(
        label,
        style: TextStyle(color: Colors.white,
fontSize: 16),
      ),
      style: ElevatedButton.styleFrom(
        backgroundColor:
Colors.deepOrangeAccent,
        padding: EdgeInsets.fromLTRB(10,
20, 247, 20),
      ),
    ),
  );
}

 Widget _buildFeatureButton({required
String label, required IconData icon,
required VoidCallback onPressed}) {
  return Align(
    alignment: Alignment.topLeft,
    child: ElevatedButton.icon(
      onPressed: onPressed,
      icon: Icon(
```

```
      icon,                              backgroundColor:
      color: Colors.white,         Colors.deepOrangeAccent,
    ),                                     padding: EdgeInsets.fromLTRB(10,
    label: Text(                     20, 225, 20),
      label,                             ),
      style: TextStyle(color: Colors.white,     ),
fontSize: 18),                         );
    ),                                 }
    style: ElevatedButton.styleFrom(   }
```

**OUTPUT** :

```
This app is linked to the debug service: ws://127.0.0.1:56071/D_Cd2-tSAKA=/ws
Debug service listening on ws://127.0.0.1:56071/D_Cd2-tSAKA=/ws
Debug service listening on ws://127.0.0.1:56071/D_Cd2-tSAKA=/ws
You pressed Profile Button
You pressed Blocked Profile Button
You pressed Notifications Button
You pressed Help Button
```