# MPL EXP-2

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D15A - 47

Aim: To Design Flutter UI by including common widgets

## Theory:

## Common Widgets used in Flutter app:

- 1. **Scaffold:** Provides the basic visual structure for a screen, including app bars, bodies, and bottom navigation.
- 2. AppBar: A widget that is displayed at the top of the screen.
- 3. Text: Displays an immutable piece of text.
- 4. **TextField:** Allows the user to enter text.
- 5. Image.network: Displays an image from a URL.
- 6. SizedBox: A box with a specified size.
- 7. **ListView.builder:** Creates a scrollable list of widgets that are built on demand.
- 8. Card: A panel with slightly rounded corners and a shadow.
- 9. InkWell: A rectangular area of a UI that responds to touch.
- 10. Column: Arranges its children in a vertical array.
- 11. Row: Arranges its children in a horizontal array.
- 12. Padding: Inserts space around another widget.
- 13. Align: Aligns its child within itself.
- 14. Container: A widget that combines common painting, positioning, and sizing widgets.
- 15. CircularProgressIndicator: A widget that indicates that a task is in progress.
- 16. **BottomNavigationBar:** A bar at the bottom of the screen for selecting different destinations.
- 17. **BottomNavigationBarItem:** An item in a bottom navigation bar.
- 18. Single Child Scroll View: A box in which a single widget can be scrolled.
- 19. AnimatedOpacity: Animates the opacity of a widget.
- 20. Center: Centers its child within itself.
- 21. MaterialPageRoute: A route that replaces the entire screen with a platform-adaptive transition.
- 22. Navigator.push: Method to push a route onto the navigator's stack.
- 23. Icon: A graphical icon widget.
- 24. InputDecoration: Styles the visual appearance of a TextField.
- 25. OutlineInputBorder: A border for TextField with a rectangular outlinE.

#### Code:

#### main.dart:

```
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:get/get.dart';
import '../screen/weight_page.dart'; // Import the weight entry page
import 'login.dart'; // Import the login page
class Homepage extends StatefulWidget {
 const Homepage({super.key});
 @override
 State<Homepage> createState() => HomepageState();
class _HomepageState extends State<Homepage> {
 void selectGender(String gender) {
  Navigator.push(
   context,
   MaterialPageRoute(
    builder: (context) => WeightPage(selectedGender: gender),
   ),
  );
 }
 // Sign out function
 void signOut() async {
  await FirebaseAuth.instance.signOut();
  Get.offAll(() => Login()); // Redirect to login page after sign out
 }
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   extendBodyBehindAppBar: true,
   appBar: AppBar(
```

```
title: Text("Select Gender"),
 backgroundColor: Colors.transparent,
 elevation: 0,
 actions: [
  IconButton(
   icon: Icon(Icons.logout, color: Colors.white),
   onPressed: signOut,
  ),
 ],
),
body: Container(
 decoration: BoxDecoration(
  gradient: LinearGradient(
   colors: [Colors.blueAccent, Colors.purpleAccent],
   begin: Alignment.topLeft,
   end: Alignment.bottomRight,
  ),
 ),
 child: Center(
  child: Padding(
   padding: const EdgeInsets.symmetric(horizontal: 25.0),
   child: Column(
    mainAxisSize: MainAxisSize.min,
    children: [
      Text(
       "Select your gender",
       style: TextStyle(
        fontSize: 24,
        fontWeight: FontWeight.bold,
        color: Colors.white,
       ),
      ),
      SizedBox(height: 20),
      GestureDetector(
       onTap: () => selectGender("Male"),
       child: Container(
        decoration: BoxDecoration(
```

```
color: Colors.blue.shade700,
   borderRadius: BorderRadius.circular(12),
  ),
  padding: EdgeInsets.all(12),
  child: Column(
   children: [
    Image.asset(
      "lib/assets/images/male.jpg",
      height: 120,
    SizedBox(height: 10),
    Text(
      "Male",
      style: TextStyle(fontSize: 18, color: Colors.white),
    ),
   ],
  ),
 ),
),
SizedBox(height: 15),
GestureDetector(
 onTap: () => selectGender("Female"),
 child: Container(
  decoration: BoxDecoration(
   color: Colors.pinkAccent.shade700,
   borderRadius: BorderRadius.circular(12),
  ),
  padding: EdgeInsets.all(12),
  child: Column(
   children: [
    Image.asset(
      "lib/assets/images/female.jpg",
      height: 120,
    SizedBox(height: 10),
    Text(
      "Female",
```

# Output:



