MAD PWA LAb 2

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Aim: To design Flutter UI by including common widgets.

Widgets:

1. Column:
   a. Column is a widget that arranges its children in a vertical array.
   b. It is commonly used to create vertical layouts, stacking widgets on top of each other.
2. Row:
   a. Row is a widget that arranges its children in a horizontal array.
   b. It is frequently used to create horizontal layouts, aligning widgets side by side.
3. Stack:
   a. Stack is a widget that allows children to be positioned on top of each other.
   b. It's useful for creating layered UIs, where widgets can overlap and be visually stacked.
4. Container:
   a. Container is a versatile box model widget that can contain other widgets.
   b. It allows customization of its appearance, such as background color, padding, margin, and more.
5. Padding:
   a. Padding is a widget used to add padding around its child widget.
   b. It is commonly used to create space or margins around widgets within a Column, Row, or other layout widgets.
6. SizedBox:
   a. SizedBox is a box model widget used to constrain the size of its child widget.
   b. It can be used to set a fixed width, height, or both, providing control over the dimensions of a widget.
7. TextField:
   a. TextField is a widget used to accept user input in the form of text.
   b. It provides a text input field where users can type or paste text.
8. RichText:

a. RichText is a widget that allows text to be styled with multiple styles within the same text widget.

b. It is useful for creating text with different fonts, colors, or other styles.

Code:

```dart
import 'package:flutter/material.dart';
import 'dart:ui' as ui;
void main() {
 runApp(const MyApp());
}

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

 @override
 Widget build(BuildContext context) {
   return MaterialApp(
     home: HomePage(),
   );
 }
}

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

 @override
 State<HomePage> createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
 @override
 Widget build(BuildContext context) {
   return Scaffold(body: LoginScreen());
 }
}

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

 @override
 State<LoginScreen> createState() => _LoginScreenState();
}

class _LoginScreenState extends State<LoginScreen> {
```

```dart
@override
Widget build(BuildContext context) {
  return Padding(
    padding: const EdgeInsets.all(5.0),
    child: Stack(
      children: [
        Column(
          mainAxisAlignment: MainAxisAlignment.start,
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Stack(
              children: [
                Container(
                  color: Colors.blueAccent,
                  height: 40.0,
                  width: double.infinity,
                  margin: const EdgeInsets.only(top: 50.0),
                ),
                Positioned(
                  left: 150.0,
                  top: 50.0 + (30.0 - 16.0) / 2,
                  child: Text(
                    "FlipKart",
                    style: TextStyle(
                      color: Colors.white,
                      fontSize: 16.0,
                      fontWeight: FontWeight.bold,
                    ),
                  ),
                ),
                SizedBox(width: 8.0), // Add some space between text and image
                Positioned(
                  top: 53.0,
                  left: 215.0,
                  child: Image.asset(
                    'assets/flipkartlogo.jpg', // Replace with your image path
                    height: 30.0,
                    width: 30.0,

                    // color: Colors.white,
                  ),
                ),
              ],
            ),
            Padding(
              padding: const EdgeInsets.only(left: 10.0, top: 15.0),
              child: Text(
                "Log in for the best experience",
```

```dart
              style: TextStyle(
                color: Colors.black,
                fontSize: 20.0,
                fontWeight: FontWeight.bold,
              ),
            ),
          ),
          Padding(
            padding: const EdgeInsets.only(left: 10.0, top: 1.0),
            child: Text(
              "Enter your phone number to continue",
              style: TextStyle(
                color: Colors.grey,
                fontSize: 14.0,
              ),
            ),
          ),
          Padding(
            padding: const EdgeInsets.only(left: 20.0, top: 30.0, right:
20.0),
            child: Container(
              decoration: BoxDecoration(
                border: Border.all(color: Colors.blueAccent),
                borderRadius: BorderRadius.circular(8.0),
              ),
              child: TextField(
                decoration: InputDecoration(
                  hintText: 'Mobile Number',
                  hintStyle: TextStyle(color: Colors.grey),
                  border: InputBorder.none,
                  contentPadding: EdgeInsets.all(15.0),
                ),
              ),
            ),
          ),
          Padding(
            padding: const EdgeInsets.only(left: 260.0, top: 5),
            child: Text(
              "Use Email-ID",
              style: TextStyle(
                color: Colors.blue[800],
                fontSize: 15.0,
                fontWeight: FontWeight.bold,
              ),
            ),
          ),
          Padding(
            padding: const EdgeInsets.only(left: 20.0, top: 30.0, right:
20.0),
```

```dart
            child: Container(
              decoration: BoxDecoration(
                border: Border.all(color: Colors.blueAccent),
                borderRadius: BorderRadius.circular(8.0),
              ),
              child: TextField(
                decoration: InputDecoration(
                  hintText: 'First Name',
                  hintStyle: TextStyle(color: Colors.grey),
                  border: InputBorder.none,
                  contentPadding: EdgeInsets.all(15.0),
                ),
              ),
            ),
          ),
          Padding(
            padding: const EdgeInsets.only(left: 20.0, top: 10.0, right:
20.0),
            child: Container(
              decoration: BoxDecoration(
                border: Border.all(color: Colors.blueAccent),
                borderRadius: BorderRadius.circular(8.0),
              ),
              child: TextField(
                decoration: InputDecoration(
                  hintText: 'Last Name',
                  hintStyle: TextStyle(color: Colors.grey),
                  border: InputBorder.none,
                  contentPadding: EdgeInsets.all(15.0),
                ),
              ),
            ),
          ),
          Padding(
            padding: const EdgeInsets.only(left: 20.0, top: 20.0, right:
20.0),
            child: RichText(
              text: TextSpan(
                text: 'By continuing, you agree to FlipKart`s ',
                style: TextStyle(color: Colors.grey),
                children: [
                  TextSpan(
                    text: 'Terms of Use and Privacy Policy',
                    style: TextStyle(color: Colors.blue),
                  ),
                ],
              ),
            ),
          ),
```

```
          ],
        ),
        Positioned(
          left: 0,
          right: 0,
          bottom: 5,
          child: Container(
            color: Colors.blue,
            height: 50.0,
            child: Center(
              child: Text(
                'Continue',
                style: TextStyle(
                  color: Colors.white,
                  fontSize: 18.0,
                  fontWeight: FontWeight.bold,
                ),
              ),
            ),
          ),
        ),
      ],
    ),
  );
 }
}
```
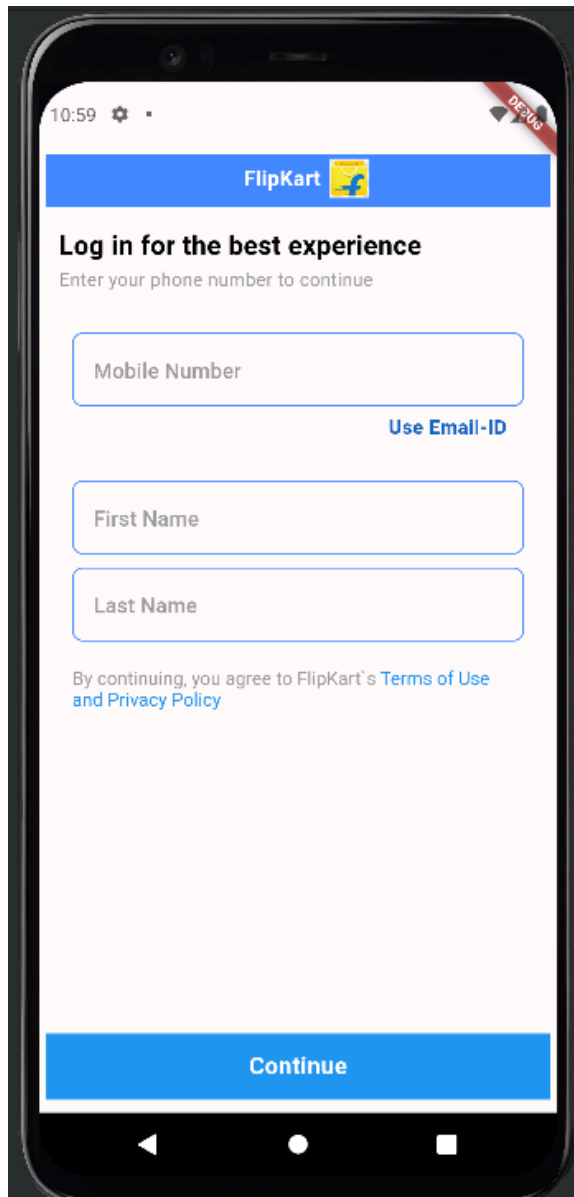
Output:

Conclusion:

Thus we studied how to design UI using common widgets.