

MAD PWA LAB 2

NAME: Prajakta Upadhye

Batch : C

Class : D15A

Roll No. : 65

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:

```
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> {
  @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",
    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),
  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),
      ),
    ),
  ),
),

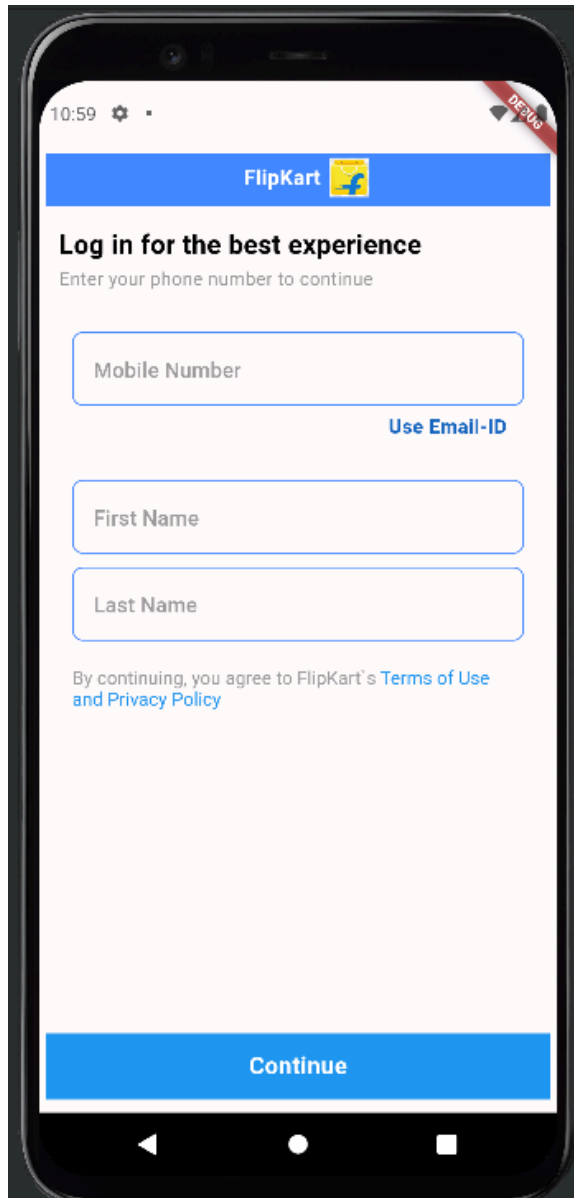
```

```

    ),
    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.