# Shravani Pore D15A 45

## Batch B

## MAD PWA LAB 2

#### AIM:

To design Flutter UI by including common widgets.

## **THEORY:**

## Some common widgets used in Flutter are as follows:

## MaterialApp:

Represents the overall structure of a Flutter application, providing settings for the app.

#### **Container:**

A box model allowing customization of size, padding, margin, and decoration for its child widget.

#### Column and Row:

<u>Column</u>: Arranges children vertically. <u>Row:</u> Arranges children horizontally.

#### Text:

Displays text with specific styles using the TextStyle class.

#### Image:

Displays images from various sources, including network URLs or local assets.

#### ListView:

Displays a scrolling list of widgets, allowing users to scroll through content.

## **GestureDetector:**

Captures user gestures like taps, double taps, and swipes, enabling interactive behavior.

#### Stack:

Overlaps widgets, allowing them to be positioned on top of each other.

#### AppBar:

Represents the app bar at the top of the screen, typically containing the app's title and actions.

## TextField:

Allows users to input text, providing a UI for text entry.

#### **SYNTAX:**

Syntaxes for some of common widgets are as follows:

```
1.Text
Text(
"Text Content",
style:TextStyle(
//style properties
)
```

#### 2.Container

```
Container(
//style like
Width: 100,
Height: 100,
child://child widget to which container contains
)
```

#### 3.TextButton

```
TextButton(
Event: action,
child: Text('Button placeholder'),
)
```

## **WIDGET AND PROPERTIES:**

The widgets used in the following code are MaterialApp, Scaffold, Padding, Column, TextField, SizedBox, TextButton, Icon, Text, EdgeInsets.

- Scaffold is used to define the basic visual structure of the screen.
- SizedBox creates a box of a specified height.
- EdgeInsets provide padding between content and the box.

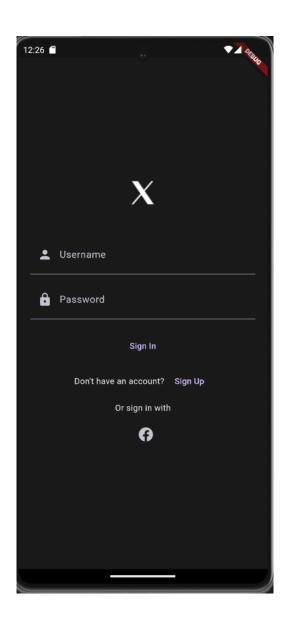
## CODE:

```
import 'package:flutter/material.dart';
import 'package:font_awesome_flutter/font_awesome_flutter.dart';
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
```

```
return MaterialApp(
   theme: ThemeData.dark(),
   home: LoginPage(),
  );
}
}
class LoginPage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   body: Padding(
     padding: const EdgeInsets.all(20.0),
     child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
       Image.asset(
         'assets/Xicon.png', // Replace with your logo image path
         height: 100,
        width: 100,
       ),
       SizedBox(height: 20),
       TextField(
        decoration: InputDecoration(
          labelText: 'Username',
          prefixIcon: Icon(Icons.person),
        ),
       ),
       SizedBox(height: 10),
       TextField(
        decoration: InputDecoration(
          labelText: 'Password',
          prefixIcon: Icon(Icons.lock),
        obscureText: true,
       SizedBox(height: 20),
       TextButton(
        onPressed: () {
        },
        child: Text('Sign In'),
       SizedBox(height: 10),
       Row(
```

```
mainAxisAlignment: MainAxisAlignment.center,
 children: [
  Text('Don\'t have an account?'),
  SizedBox(width: 5),
  TextButton(
   onPressed: () {
    // Navigate to the sign-up page (not implemented in this example)
   },
   child: Text('Sign Up'),
  ),
],
),
SizedBox(height: 10),
Text('Or sign in with'),
SizedBox(height: 10),
Row(
 mainAxisAlignment: MainAxisAlignment.center,
 children: [
  SizedBox(width: 10),
  IconButton(
   icon: Falcon(FontAwesomelcons.facebook),
   onPressed: () {
   },
  ),
```

## **OUTPUT:**



# **CONCLUSION:**

Learned about basic widgets used in flutter. Learned about syntaxes for the same.