

## MAD and PWA Lab

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### **Experiment No.-2**

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

#### **THEORY:**

**Widgets:** Basic building block used to create the user interface of an application

- **Scaffold:** The main container for the visual elements of the screen.
- **Column:** A vertical arrangement of widgets. In this case, it's used to stack different sections of the screen on top of each other.
- **Expanded:** Allows a child widget to take up available space within the parent widget.
- **Container:**A box model that can contain other widgets. It's often used for styling and layout purposes.
- **Image.asset:**Loads an image from the assets directory. The 'cart.png' image is displayed with a specific color and height.
- **Text:**Displays a text string. Used to show the "Buy or Sell" text with a specific style.
- **AuthUi:**A custom widget (not provided in the snippet) that seems to encapsulate the authentication-related UI. It's used in an Expanded widget to take up available space in the second section of the screen.
- **Padding:**Adds padding around the specified child widget. It's used to provide padding around the text that displays the terms and conditions.

- **Text (within Padding):** Displays the terms and conditions text with a specific style.
- **Button:** To create interactive buttons.

## **CODE:**

**login\_screen.dart:**

```
import 'package:flutter/material.dart';
import 'package:olx_clone/widgets/auth_ui.dart';

class LoginScreen extends StatelessWidget {
  static const String id='login-screen';
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.cyan.shade900,
      body: Column(
        children: [
          Expanded(
            child: Container(
              width: MediaQuery.of(context).size.width, //to get device width
              color: Colors.white,
              child: Column(
                children: [
                  SizedBox(height: 50),
                  Image.asset('assets/images/cart.png',
                    color: Colors.cyan.shade900,
                    height: 100, ),
                  SizedBox(height: 5, ),
                  Text('Buy or Sell', style: TextStyle(
                    fontFamily: 'Horizon',
                    fontSize: 30,
                    fontWeight: FontWeight.bold,
                    color: Colors.cyan.shade900,
                  ), ),
                ],
              ),
            ),
          Expanded(child: Container(
            child: AuthUi(),
          ), ),
          Padding(padding: const EdgeInsets.all(8.0),
            child: Text('If you continue, you are accepting\nTerms and Conditions and Privacy Policy'
```

```

        ,textAlign:TextAlign.center,style:TextStyle(color:
Colors.white,fontSize: 10) ),),
    ),
  ],
),

);
}
}

```

### Auth\_Ui.dart:

```

import 'package:flutter/material.dart';
import 'package:flutter_signin_button/button_list.dart';
import 'package:flutter_signin_button/button_view.dart';
import 'package:olx_clone/screens/authentication/phoneauth_screen.dart';

class AuthUi extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.min,
        children: [
          SizedBox(
            width: 220,
            child: ElevatedButton(
              style: ButtonStyle(
                backgroundColor: MaterialStateProperty.all(Colors.white),
              ),
              onPressed: () {
                Navigator.pushNamed(context, PhoneAuthScreen.id);
              },
            ),
            child: Row(
              children: [
                Icon(Icons.phone_android_outlined, color: Colors.black),
                SizedBox(width: 8),
                Text('Continue with Phone', style: TextStyle(color:
Colors.black)),
              ],
            ),
          ),
          SignInButton(
            Buttons.Google,
            text: ('Continue with Google'),

```

```

        onPressed: () {},
      ),
      SignInButton(
        Buttons.FacebookNew,
        text: ('Continue with Facebook'),
        onPressed: () {},
      ),
      Padding(
        padding: const EdgeInsets.all(8.0),
        child: Text(
          'Login with Email',
          style: TextStyle(
            color: Colors.white,
            fontWeight: FontWeight.bold,
            decoration: TextDecoration.underline,
          ),
        ),
      ),
    ],
  ),
);
}
}

```

## main.dart:

```

import 'package:firebase_core/firebase_core.dart';
import 'package:flutter/material.dart';
import 'package:olx_clone/screens/authentication/phoneauth_screen.dart';
import 'package:olx_clone/screens/login_screen.dart';
import 'package:olx_clone/screens/splash_screen.dart';

void main() async {
  // WidgetsFlutterBinding.ensureInitialized();
  // await Firebase.initializeApp();
  runApp(MyApp());
}

class MyApp extends StatelessWidget{
  @override
  Widget build(BuildContext context){
    return FutureBuilder(
      // Replace the 3 second delay with your initialization code:
      future: Future.delayed(Duration(seconds: 3)), //after 3 seconds screen
      will move to next screen
      builder: (context, AsyncSnapshot snapshot) {
        // Show splash screen while waiting for app resources to load:
        if (snapshot.connectionState == ConnectionState.waiting) { //if its
        connecting screen will go to splash screen
          return MaterialApp(

```

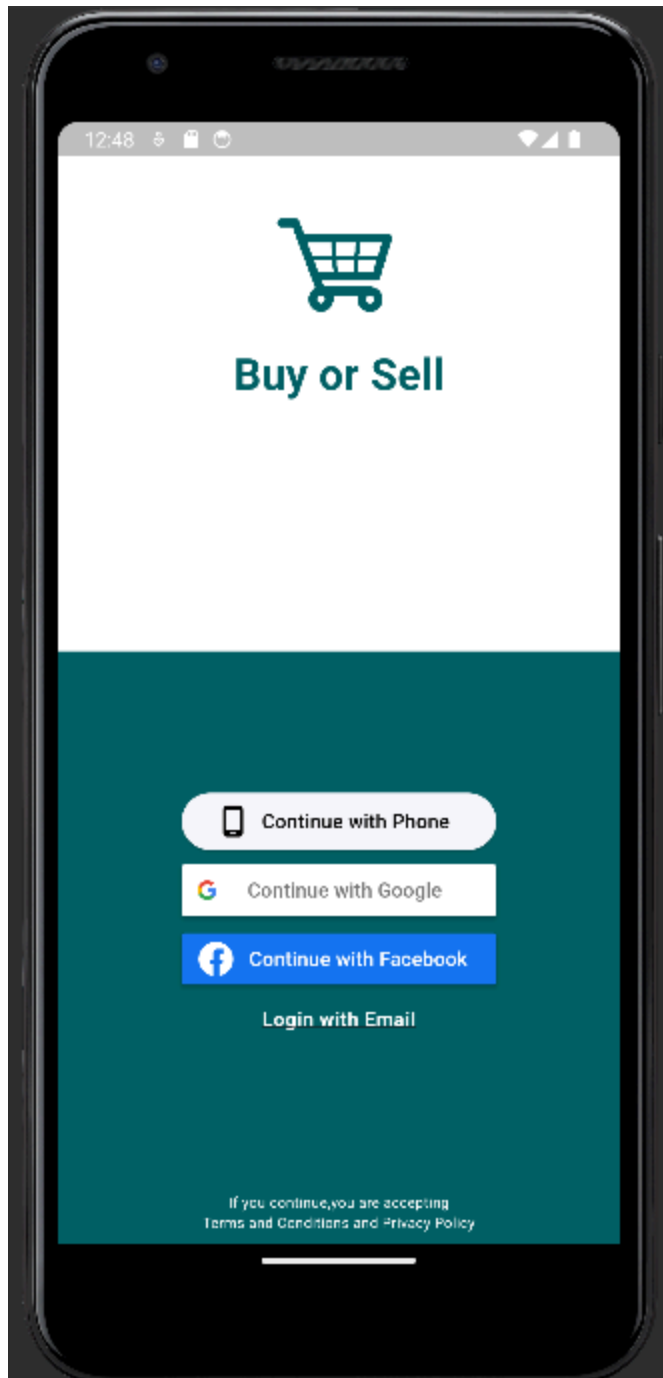
```
//to remove the banner in right corner
debugShowCheckedModeBanner: false,
theme: ThemeData(
  primaryColor: Colors.cyan.shade900,
  fontFamily: 'Horizon'
),

home: SplashScreen(); //need to create this screen
} else {
  // Loading is done, return the app:
  return MaterialApp(
    debugShowCheckedModeBanner: false,

    home: LoginScreen(),

    routes: {
      LoginScreen.id: (context) => LoginScreen(),
      PhoneAuthScreen.id: (context) => PhoneAuthScreen(),
    }
  );
}
},
);
}
}
```

## **OUTPUT:**



## **CONCLUSION:**

We have designed the FlutterUi using the common widgets.