

## MAD and PWA Lab

**Name:**Sneha Utekar

**Class:** D15A

**Roll no:**66

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

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

#### **THEORY:**

##### **1. SplashScreen (splashscreen.dart):**

**Description:**This widget represents the splash screen of the application, displaying an animated logo (Olx) and a loading animation.

##### **Widgets Used:**

- **AnimatedTextKit:** Provides a set of pre-built animated text styles.
- **ColorizeAnimatedText:** A specific type of animated text that changes color dynamically.
- **Scaffold:** The top-level container for the widget hierarchy.

##### **2. HomeScreen (home\_screen.dart):**

**Description:**The main screen of the application where users can search for items and view banners and categories.

##### **Widgets Used:**

**Scaffold:** The top-level container for the widget hierarchy.

**AppBar:** The app bar containing the location information and search bar.

**TextField:** Allows users to input search queries.

**BannerWidget:** A custom widget for displaying banners and categories.

**bottomNavigationBar:** Contains a sign-out button.

## **BannerWidget (banner\_widget.dart):**

Description: A custom widget representing a banner section with information about cars, animated text, and buttons for buying and selling.

### Widgets Used:

- **Neumorphic:** A container with neumorphic (soft shadow) styling.
- **Container:** A box to hold other widgets with specified dimensions.
- **Padding:** Adds padding around its child widgets.
- **Column:** Arranges its children in a vertical column.
- **Row:** Arranges its children in a horizontal row.
- **Text:** Displays text with specified styling.
- **SizedBox:** Provides a box with a fixed size.
- **DefaultTextStyle:** Applies a default text style to its child.
- **AnimatedTextKit:** Displays a set of animated texts.
- **FadeAnimatedText:** A specific type of animated text with a fading effect.
- **NeumorphicButton** :A neuromorphic-styled button.

## **CODE:**

### **splashscreen.dart:**

```
import 'package:animated_text_kit/animated_text_kit.dart';  
import 'package:flutter/material.dart';
```

```
class SplashScreen extends StatelessWidget {  
  const SplashScreen({super.key});
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    const colorizeColors = [
```

```
      Colors.white,
```

```
      Colors.cyan,
```

```
    ];
```

```
    const colorizeTextStyle = TextStyle(
```

```

    fontSize: 50.0,
    fontFamily: 'Horizon',//need to add our own font
    fontWeight: FontWeight.bold,
  );
  return Scaffold(
    backgroundColor:Colors.cyan.shade900 ,
    body:Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.min,
        children: [
          Image.asset('assets/images/cart.png',
            // color: Colors.white
          ),
          SizedBox(
            height:10,
          ),
          //need an animated text
          AnimatedTextKit(
            animatedTexts: [
              ColorizeAnimatedText(
                'Olx',
                textStyle: colorizeTextStyle,
                colors: colorizeColors,
              ),

            ],
            isRepeatingAnimation: true,
            onTap: () {
              print("Tap Event");
            },
          ),

        ],
      ),
    ),
  );
}
}

```

**home\_screen.dart:**

```
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:location/location.dart';
import 'package:flutter_geocoder/geocoder.dart';
import 'package:olx_clone/screens/login_screen.dart';
import 'package:olx_clone/widgets/banner_widget.dart';
```

```
class HomeScreen extends StatefulWidget {
  static const String id = 'home-screen';
  final LocationData? locationData;
```

```
  HomeScreen({required this.locationData});
```

```
  @override
```

```
  State<HomeScreen> createState() => _HomeScreenState();
```

```
}
```

```
class _HomeScreenState extends State<HomeScreen> {
  String address = 'India';
```

```
  Future<String?> getAddress() async {
```

```
    // From coordinates
```

```
    final coordinates = Coordinates(widget.locationData?.latitude,
    widget.locationData?.longitude);
```

```
    var addresses = await Geocoder.local.findAddressesFromCoordinates(coordinates);
```

```
    var first = addresses.first;
```

```
    setState(() {
```

```
      address = first.addressLine ?? 'Address not found';
```

```
    });
```

```
    return first.addressLine;
```

```
  }
```

```
  @override
```

```
  void initState() {
```

```
    super.initState();
```

```
    getAddress();
```

```
  }
```

```
  @override
```

```

Widget build(BuildContext context) {
  return Scaffold(

    appBar: AppBar(
      backgroundColor: Colors.white,
      elevation: 0.0,
      automaticallyImplyLeading: false,
      title: InkWell(
        onTap: () {},
        child: Container(
          width: MediaQuery.of(context).size.width,
          child: Padding(
            padding: const EdgeInsets.only(top: 8, bottom: 8),
            child: Row(
              children: [
                Icon(CupertinoIcons.location_solid, color: Colors.black, size: 18,),
                Flexible(
                  child: Text(
                    address,
                    style: TextStyle(color: Colors.black, fontSize: 12, fontWeight:
FontWeight.bold),
                  ),
                ),
                Icon(Icons.arrow_downward_outlined, color: Colors.black, size: 18,),
              ],
            ),
          ),
        ),
      ),
    ),
    body: Column(
      children: [
        Container(
          color: Colors.white,
          child: Padding(
            padding: const EdgeInsets.fromLTRB(12,0,12,8),
            child: Row(
              children: [
                Expanded(
                  child: SizedBox(
                    height: 40,

```



```
class BannerWidget extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Neumorphic(
      child: Container(
        width: MediaQuery.of(context).size.width,
        height: MediaQuery.of(context).size.height * 0.25,
        color: Colors.cyan.shade800,
        child: Padding(
          padding: const EdgeInsets.all(10.0),
          child: Column(

            mainAxisAlignment: MainAxisAlignment.spaceBetween,
            children: [
              Padding(
                padding: const EdgeInsets.all(10.0),
                child: Row(
                  mainAxisAlignment: MainAxisAlignment.spaceBetween,
                  children: [
                    Column(
                      crossAxisAlignment: CrossAxisAlignment.start,
                      children: [
                        SizedBox(height: 10),
                        Text(
                          'CARS',
                          style: TextStyle(
                            fontWeight: FontWeight.bold,
                            color: Colors.white,
                            letterSpacing: 1,
                            fontSize: 18,
                          ),
                        ),
                        SizedBox(height: 20),
                        SizedBox(
                          width: 200.0, // Adjust the width as needed
                          child: DefaultTextStyle(
                            style: const TextStyle(
                              fontSize: 15.0,
                              fontWeight: FontWeight.bold,
                            ),
                          ),
                        ),
                      ],
                    ),
                  ],
                ),
              ),
            ],
          ),
        ),
      ),
    );
  }
}
```

```

child: AnimatedTextKit(
  repeatForever: true,
  isRepeatingAnimation: true,
  animatedTexts: [
    FadeAnimatedText(
      'Reach 10 Lakh+\nInterested Buyers',
      duration: Duration(seconds: 4),
    ),
    FadeAnimatedText(
      'New way to\nBuy or Sell Cars',
      duration: Duration(seconds: 4),
    ),
    FadeAnimatedText(
      'Over 1 Lakh\nCars to Buy',
      duration: Duration(seconds: 4),
    ),
  ],
),
),
),
),
],
),
Neumorphic(
  style: NeumorphicStyle(
    color: Colors.white,
  ),
  child: Image.network(

```

```

'https://firebasestorage.googleapis.com/v0/b/olxclone-12618.appspot.com/o/banner%
2Ficons8-car-100.png?alt=media&token=8e6abf20-34d5-4d51-93c5-48cbf675924b',

```

```

  width: 95, // Adjust the width as needed
  height: 95, // Adjust the height as needed
),
),
],
),
),
),

```

```

Row(
  mainAxisAlignment: MainAxisAlignment.min,
  children: [

```





```

        messagingSenderId:"232516563209" ,
        projectId: "olxclone-12618"
    )
);await Firebase.initializeApp();
runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      theme: ThemeData(
        primaryColor: Colors.cyan.shade900,
        fontFamily: 'Horizon',
      ),
      initialRoute: SplashScreen.id,
      routes: {
        SplashScreen.id: (context) => SplashScreen(),
        LoginScreen.id: (context) => LoginScreen(),
        PhoneAuthScreen.id: (context) => PhoneAuthScreen(),
        LocationScreen.id: (context) => LocationScreen(),
        HomeScreen.id: (context) => HomeScreen(locationData: null),
        EmailAuthScreen.id: (context) => EmailAuthScreen(),
      },
    );
  }
}

```

**pubsec.yaml:**

```

name: olx_clone
description: "A new Flutter project."

```

```

publish_to: 'none' # Remove this line if you wish to publish to pub.dev

```

```

version: 1.0.0+1

```

```

environment:
  sdk: '>=3.2.5 <4.0.0'

```

```

dependencies:
  flutter:

```

sdk: flutter

cupertino\_icons: ^1.0.2  
cloud\_firestore: ^4.15.3  
animated\_text\_kit: ^4.2.2  
flutter\_signin\_button: ^2.0.0  
firebase\_core: ^2.24.2  
firebase\_auth: ^4.16.0  
legacy\_progress\_dialog: ^0.1.2  
location: ^5.0.3  
flutter\_geocoder: ^0.2.2-nullsafety  
google\_sign\_in: ^6.2.1  
email\_validator: ^2.1.17  
flutter\_neumorphic\_plus: ^3.3.0

dev\_dependencies:

flutter\_test:  
 sdk: flutter

flutter\_lints: ^2.0.0

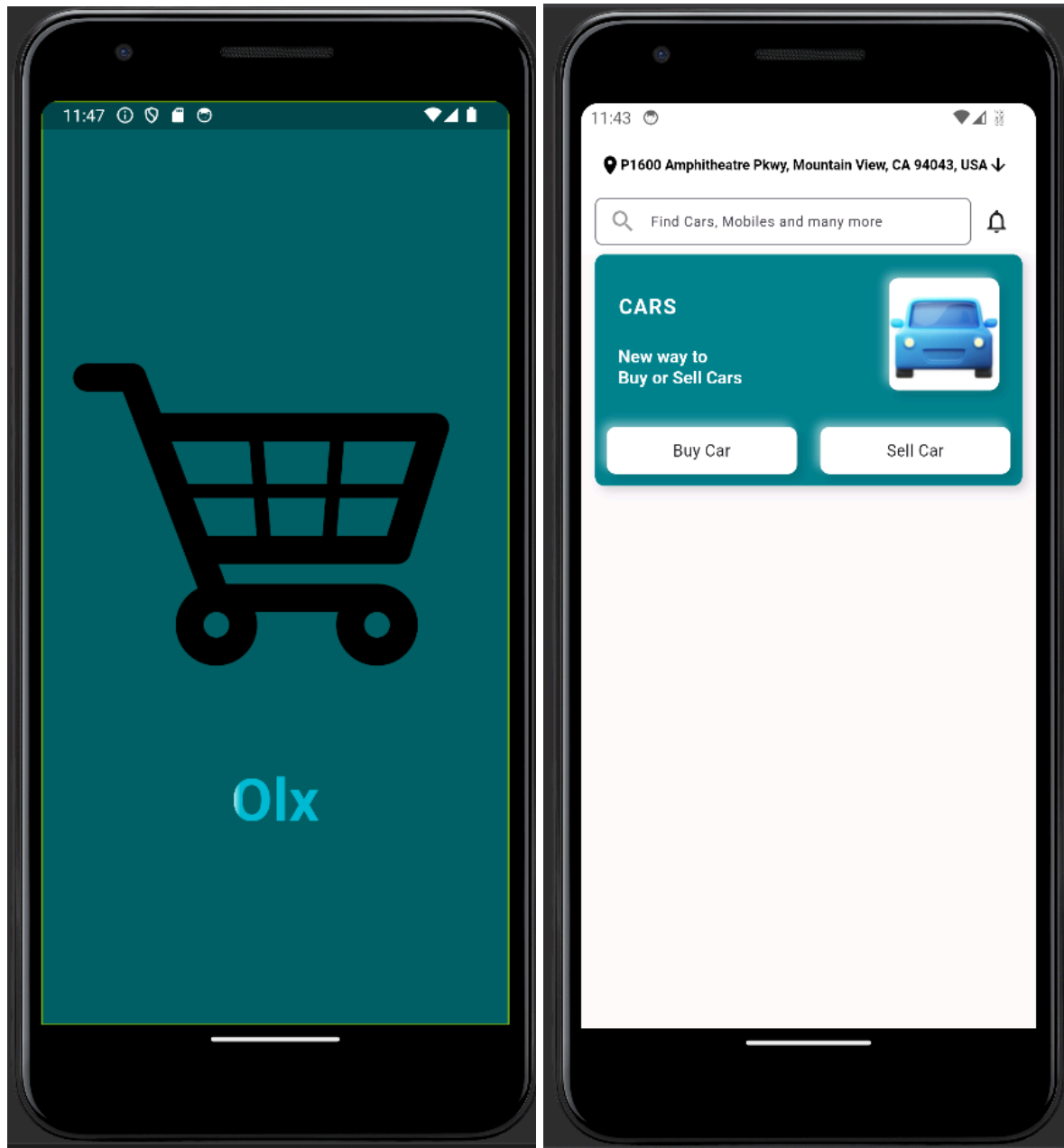
flutter:

uses-material-design: true

assets:

- assets/images/cart.png
- assets/images/map.png

## **OUTPUT:**



## **CONCLUSION:**

We have designed the FlutterUi using the common widgets.

