

MAD and PWA Lab

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AIM: To include icons, images, fonts in Flutter app

THEORY:

A) Icons:

Icons play a crucial role in conveying information and improving the user interface. Flutter provides the `Icon` widget to display various icons from different icon libraries. Commonly used icon libraries include `MaterialIcons`, `FontAwesome`, and `CupertinoIcons`. To include icons:

1. Import the necessary icon library in your Dart file:

```
import 'package:flutter/material.dart'; // Example for Material Icons
```

2. Use the `Icon` widget to display an icon:

```
Icon(Icons.favorite);
```

B) Images:

Images are essential for creating visually appealing interfaces. Flutter supports various image formats, such as JPEG, PNG, and GIF. To include images:

1. Place your image assets in the `assets` directory of your Flutter project.

2. Update your `pubspec.yaml` file to include the assets:

pubspec.yaml:

```
flutter:
```

```
  assets:
```

```
    - assets/my_image.jpg
```

3. Use the `Image` widget to display an image:

```
Image.asset('assets/my_image.jpg');
```

C) Fonts:

Custom fonts can give your app a unique and distinctive look. To include custom fonts:

1. Place your font files (e.g., TTF or OTF) in the `fonts` directory of your Flutter project.

2. Update your `pubspec.yaml` file to include the fonts:

```
flutter:  
  fonts:  
    - family: MyCustomFont  
      fonts:  
        - asset: fonts/my_custom_font.ttf
```

3. Use the custom font in your text widget:

```
Text(  
  'Hello, Flutter!',  
  style: TextStyle(  
    fontFamily: 'MyCustomFont',  
  ),  
);
```

CODE:

location_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:olx_clone/screens/home_screen.dart';  
import 'package:olx_clone/screens/login_screen.dart';
```

```
class LocationScreen extends StatefulWidget {  
  static const String id = "location-screen";
```

```

@override
State<LocationScreen> createState() => _LocationScreenState();
}

```

```

class _LocationScreenState extends State<LocationScreen> {
  bool _loading=false;
  Location location = new Location();

```

```

  late bool _serviceEnabled;
  late PermissionStatus _permissionGranted;
  late LocationData _locationData;

```

```

Future<LocationData?> getLocation() async {
  _serviceEnabled = await location.serviceEnabled();
  if (!_serviceEnabled) {
    _serviceEnabled = await location.requestService();
    if (!_serviceEnabled) {
      return null;
    }
  }
}

```

```

  _permissionGranted = await location.hasPermission();
  if (_permissionGranted == PermissionStatus.denied) {
    _permissionGranted = await location.requestPermission();
    if (_permissionGranted != PermissionStatus.granted) {
      return null;
    }
  }
}

```

```

  _locationData = await location.getLocation();
  print(_locationData);

```

```

  return _locationData;
}

```

```

@override

```

```

Widget build(BuildContext context) {
  return Scaffold(

```

```

backgroundColor: Colors.white,
body: Column(
  children: [
    Image.asset('assets/images/map.png', height: 350),
    SizedBox(height: 20),
    Text(
      'Where do you want \nto buy/sell products?',
      textAlign: TextAlign.center,
      style: TextStyle(fontWeight: FontWeight.bold, fontSize: 25),
    ),
    SizedBox(
      height: 10,
    ),
    Text(
      'To fully enjoy all that we have to offer,\nwe need to know where to look for it',
      textAlign: TextAlign.center,
      style: TextStyle(fontSize: 12),
    ),
    SizedBox(
      height: 30,
    ),
    Padding(
      padding: const EdgeInsets.only(left: 20, right: 20, bottom: 10),
      child: Row(
        children: [
          Expanded(
            child: _loading ? Center(child: CircularProgressIndicator(
              valueColor:
AlwaysStoppedAnimation<Color>(Theme.of(context).primaryColor),
            )):ElevatedButton.icon(
              style: ButtonStyle(
                backgroundColor: MaterialStateProperty.all<Color>(
                  Theme.of(context).primaryColor,
                ),
              ),
              icon: Icon(
                CupertinoIcons.location_fill,
                color: Colors.white,
              ),
              label: Padding(
                padding: const EdgeInsets.only(top: 15, bottom: 15),

```

```
        child: Text('Around me', style: TextStyle(color: Colors.white,fontWeight:
FontWeight.bold)),),
```

```
    ),
    onPressed: () {
      setState(() {
        _loading=true;
      });
      getLocation().then((value) {
        print(_locationData.latitude);

        if (value != null) {
          Navigator.pushReplacement(
            context,
            MaterialPageRoute(
              builder: (BuildContext context) =>
                HomeScreen(locationData: _locationData),
            ),
          );
        }
      });
    },
  ),
),
],
),
),
),
],
),
```

```
);  
}  
}
```

main.dart:

```
import 'package:firebase_core/firebase_core.dart';  
import 'package:flutter/material.dart';  
import 'package:olx_clone/screens/authentication/email_auth_screen.dart';  
import 'package:olx_clone/screens/authentication/phoneauth_screen.dart';  
import 'package:olx_clone/screens/home_screen.dart';  
import 'package:olx_clone/screens/login_screen.dart';  
import 'package:olx_clone/screens/splash_screen.dart';  
import 'package:olx_clone/screens/location_screen.dart';  
import 'dart:io';
```

```
void main() async {  
  WidgetsFlutterBinding.ensureInitialized();  
  Platform.isAndroid ?await Firebase.initializeApp(  
    options: const FirebaseOptions(  
      apiKey: "AIzaSyDuFtAm59795zlrpp16kTJTbd1Lac95KkI",  
      appId: "1:232516563209:android:d2dea587c60de17bac63d8",  
      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

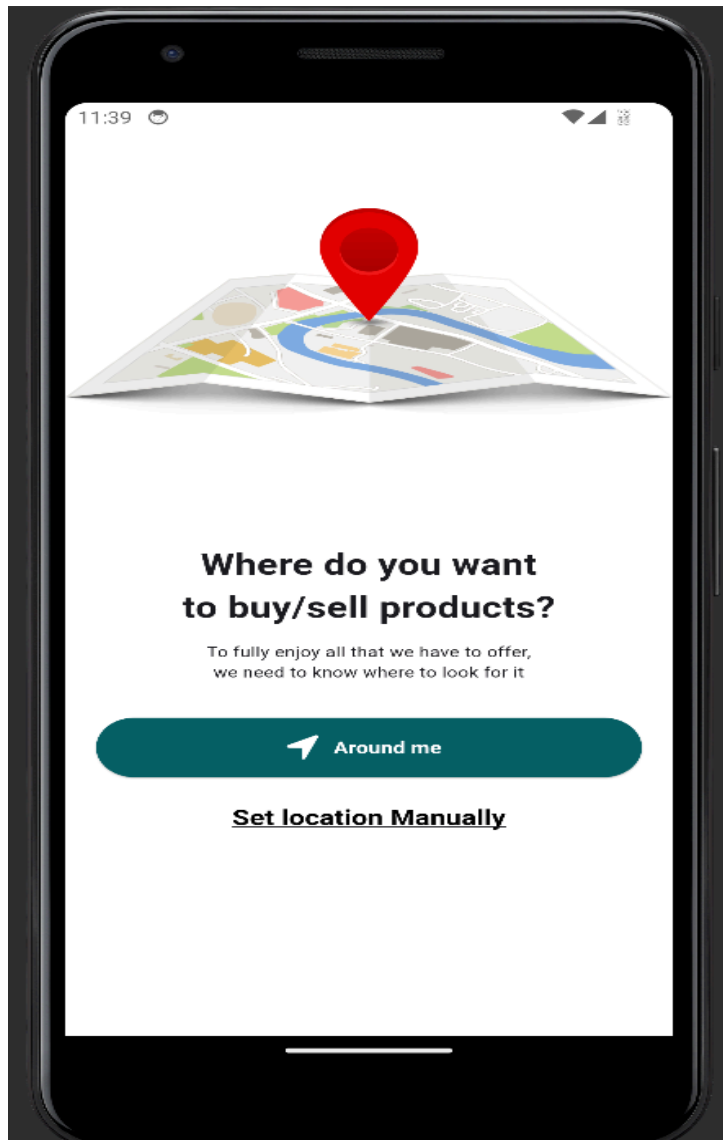
flutter:

uses-material-design: true

assets:

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

OUTPUT:



CONCLUSION:

We have understood how to include the icons, images and fonts in flutter UI. We have implemented these things in our UI.

