MAD and PWA Lab

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Experiment No.-3

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:
  pubsec.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:
splash_screen.dart:
```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,
```

```dart
    ];

    const colorizeTextStyle = TextStyle(
      fontSize: 30.0,
      fontFamily: 'Horizon',//need to add our own font
    );
    return  Scaffold(
      backgroundColor:Colors.cyan.shade900 ,
      body:Center(
        child: Column(
          mainAxisSize: MainAxisSize.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");
            },
          ),

          ],
        ),
      ),

    );
 }
}
//restart the app
```

phoneAuthScreen.dart:

```dart
// import 'dart:js';

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:legacy_progress_dialog/legacy_progress_dialog.dart';
import 'package:olx_clone/services/phoneauth_service.dart';

class PhoneAuthScreen extends StatefulWidget {
  static const String id = 'phone-auth-screen';

  @override
  _PhoneAuthScreenState createState() => _PhoneAuthScreenState();
}

class _PhoneAuthScreenState extends State<PhoneAuthScreen> {
  bool validate = false;
  TextEditingController countryCodeController = TextEditingController(text:
'+91');
  TextEditingController phoneNumberController = TextEditingController();
  String counterText = '0';

  PhoneAuthService _service= PhoneAuthService();

  @override
  Widget build(BuildContext context) {

    //Create an instance of ProgressDialog
    ProgressDialog progressDialog = ProgressDialog(
      context: context,
      backgroundColor: Colors.white,
      textColor: Colors.black,
      loadingText:'Please wait' ,
      progressIndicatorColor:Theme.of(context).primaryColor ,

    );

    return Scaffold(
      appBar: AppBar(
        elevation: 1,
        backgroundColor: Colors.white,
        iconTheme: IconThemeData(
          color: Colors.black,
        ),
```

```dart
          title: Text('Login', style: TextStyle(color: Colors.black)),
        ),
      body: Padding(
        padding: const EdgeInsets.all(20.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            SizedBox(height: 40),
            CircleAvatar(
              radius: 30,
              backgroundColor: Colors.red.shade200,
              child: Icon(
                CupertinoIcons.person_alt_circle,
                color: Colors.red,
                size: 60,
              ),
            ),
            SizedBox(height: 12),
            Text(
              'Enter your Phone',
              style: TextStyle(fontSize: 30, fontWeight: FontWeight.bold),
            ),
            SizedBox(height: 10),
            Text(
              'We will send the confirmation code to your phone',
              style: TextStyle(color: Colors.grey),
            ),
            Row(
              children: [
                Expanded(
                  flex: 1,
                  child: TextFormField(
                    controller: countryCodeController,
                    enabled: false,
                    style: TextStyle(color: Colors.black), // Set the text
color here
                    decoration: InputDecoration(
                      labelText: 'Country',
                    ),
                  ),
                ),
                SizedBox(width: 10),
                Expanded(
                  flex: 3,
                  child: TextFormField(
                    onChanged: (value) {
                      setState(() {
                        counterText = value.length.toString();
                        if (value.length == 10) {
```

```dart
                      validate = true;
                    }
                    if (value.length < 10) {
                      setState(() {
                        validate = false;
                      });
                    }
                  });
                },
                autofocus: true,
                maxLength: 10,
                keyboardType: TextInputType.phone,
                controller: phoneNumberController,
                decoration: InputDecoration(
                  contentPadding: EdgeInsets.only(bottom: 22, top: 22),
                  counterText: '$counterText / 10',
                  counterStyle: TextStyle(fontSize: 10),
                  labelText: 'Number',
                  hintText: 'Enter your phone number',
                  hintStyle: TextStyle(fontSize: 10, color: Colors.grey),
                ),
              ),
            ),
          ],
        ),
      ],
    ),
  ),
  bottomNavigationBar: SafeArea(
    child: Padding(
      padding: const EdgeInsets.all(12.0),
      child: AbsorbPointer(
        absorbing: validate ? false : true,
        child: ElevatedButton(
          style: ButtonStyle(
            backgroundColor: validate
                ? MaterialStateProperty.all(Theme.of(context).primaryColor)
                : MaterialStateProperty.all(Colors.grey),
          ),
          onPressed: () {

            String number =
'${countryCodeController.text}${phoneNumberController.text}';
            progressDialog.show();
            _service.verifyPhoneNumber(context, number);
            // progressDialog.dismiss();

            // onPressed: () async {
            //     progressDialog.show();
```

```
          //      String number =
'${countryCodeController.text}${phoneNumberController.text}';
          //
          //      // Await for the verification to complete
          //      await _service.verifyPhoneNumber(context, number);
          //
          //      // Dismiss the progress dialog
          //      progressDialog.dismiss();
          },

          child: Padding(
            padding: const EdgeInsets.all(12.0),
            child: Text(
              'Next',
              style: TextStyle(color: Colors.white, fontWeight:
FontWeight.bold),
            ),
          ),
        ),
      ),
    ),
  );
 }
}
```

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:
```

```dart
      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(),
            }
          );
        }
      },
    );
  }
}
```
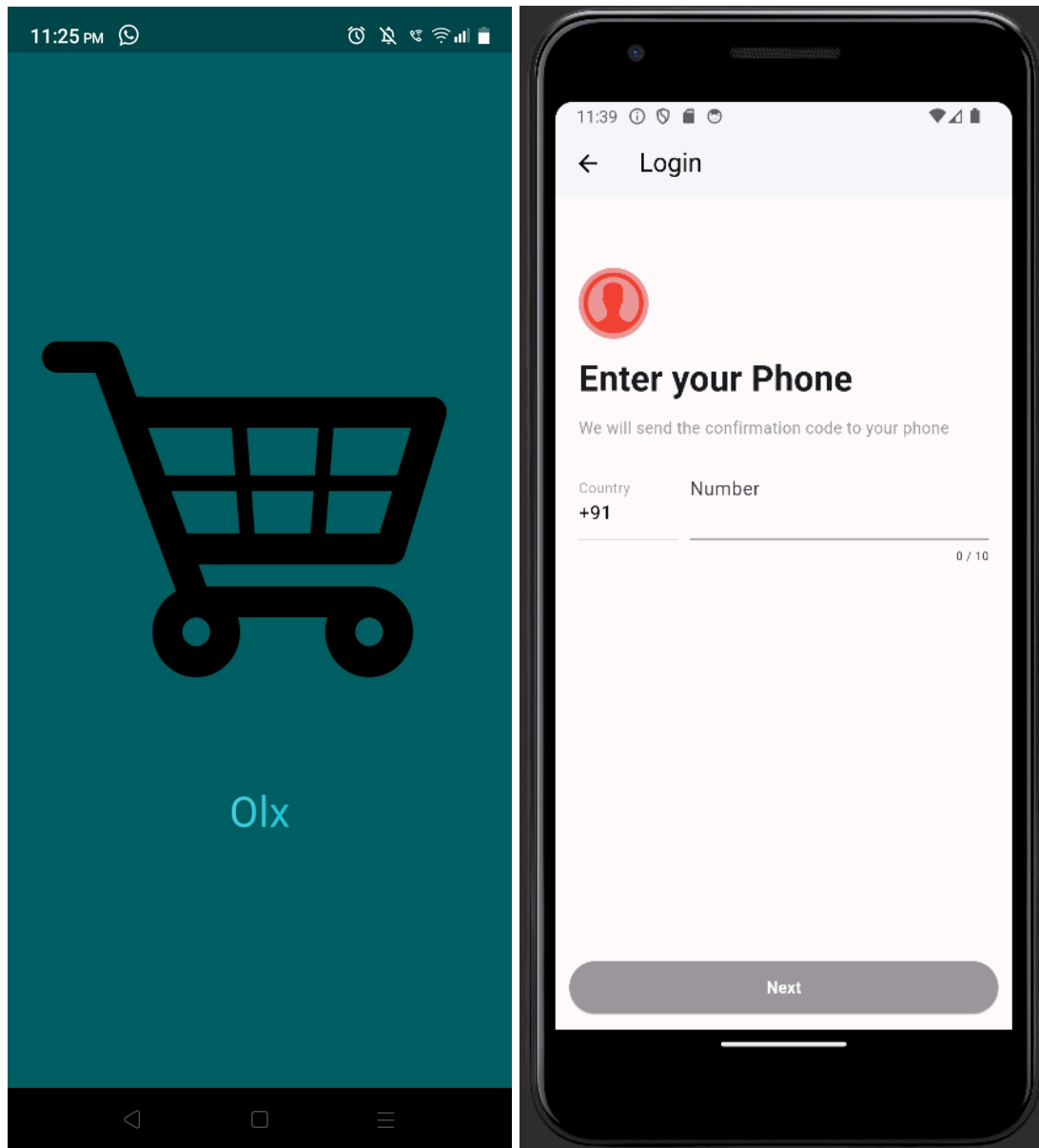
OUTPUT:

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