



# Splash Screen

```
import 'package:animated_splash_screen/animated_splash_screen.dart';
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:green_egypt/config/images_paths.dart';
import 'package:green_egypt/config/user_data_model/user_data_model.dart';
import 'package:green_egypt/screens/home_page/home_page.dart';
import 'package:green_egypt/screens/introduction_screen/introduction_screen.dart';
import 'package:green_egypt/screens/start_screen/start_screen.dart';
import 'package:green_egypt/services/Shared_preferences/first_launch.dart';
import 'package:page_transition/page_transition.dart';

class SplachScreenCustom extends StatelessWidget {
  SplachScreenCustom({super.key});

  @override
  Widget build(BuildContext context) {
    return AnimatedSplashScreen(
      // time in milli seconds
      duration: 2000,
      /**
       * Fade Animation Duration
       */
      animationDuration: Duration(seconds: 1),
      /**
       * Centeralize image
       */
      centered: true,
      splashIconSize: Get.height,
      splash: Container(
```

```

    /**
     * make image take the width of the screen
     */
    width: Get.width,
    /**
     * make image take the height of the screen
     */
    height: Get.height,
    decoration: BoxDecoration(
        image: DecorationImage(
            image: AssetImage(ImagesPaths.splashImagePath),
            fit: BoxFit.cover,
            /**
             * Add dark layer on the image
             */
            colorFilter: ColorFilter.mode(
                Colors.black.withOpacity(0.55), BlendMode.darken),
        ),
    ),
    child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        mainAxisSize: MainAxisSize.min,
        children: [
            Icon(
                Icons.recycling_sharp,
                color: Colors.green,
                size: 60,
            ),
            SizedBox(
                height: 18,
            ),
            Text(
                "♻️ Green Egypt 🌱",
                style: TextStyle(fontSize: 24, color: Colors.white),
            ),
            SizedBox(
                height: 24,
            ),
            Align(
                alignment: Alignment.bottomCenter,
                child: Text(
                    "Saving Nature is our Duty 💚",
                    style: TextStyle(fontSize: 16, color: Colors.white),
                ),
            )
        ],
    ),
    nextScreen:
        /**
         * If first Launch Shared preference has value true ,
         * it mean that application opened , so open on login screen
         * else it mean that it is first time application opened , so
         * open on intro screen .
        */
)

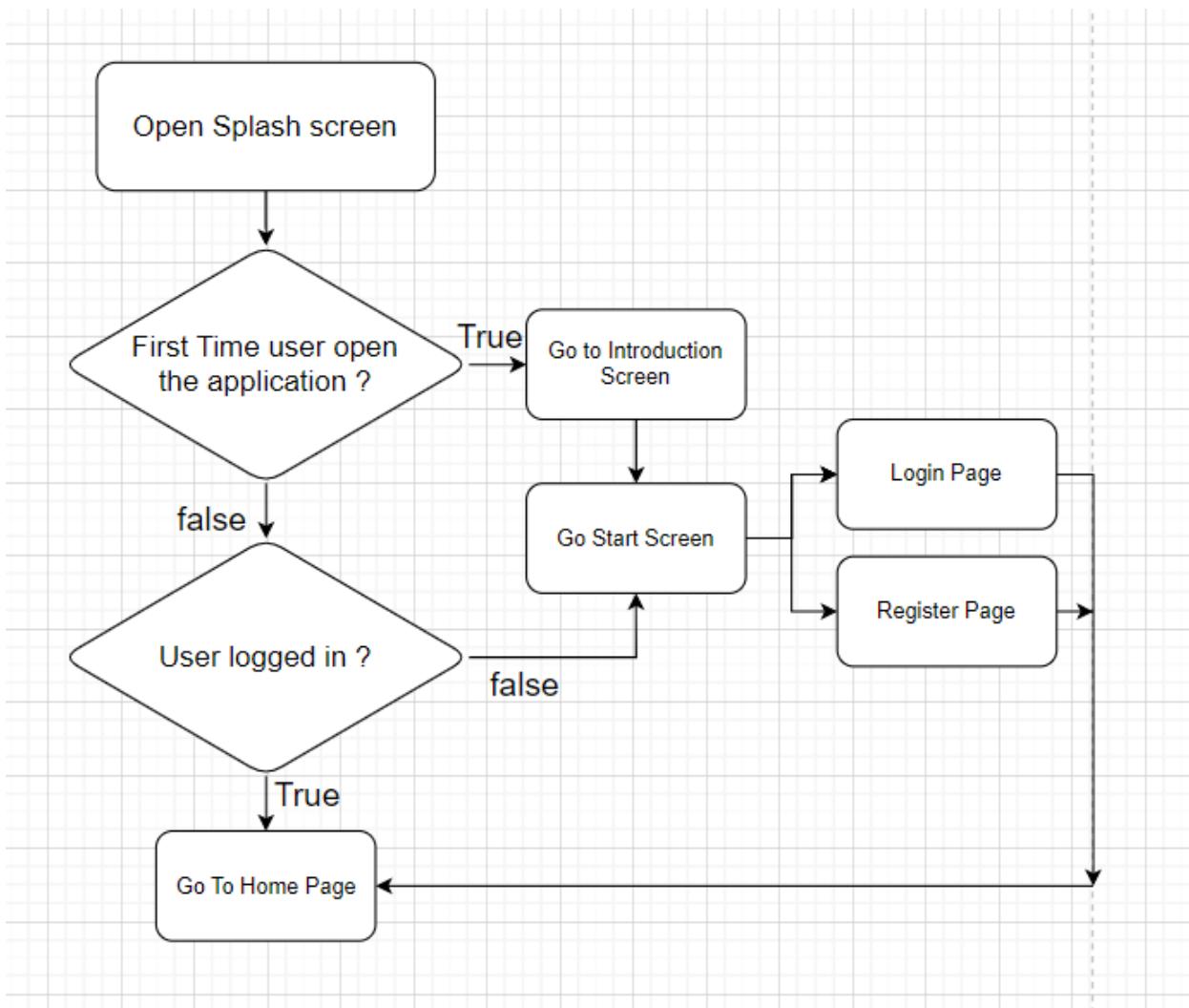
```

```

        */
        FirstLaunch.firstLaunchDone()
            ? (UserDataModel.getUserLoggedInBool()
                ? HomePage()
                : StartScreen())
            : IntroductionScreen(),
        splashTransition: SplashTransition.fadeTransition,
        pageTransitionType: PageTransitionType.fade,
    );
}
/***
 *
 */

```

## \*\* Next route Navigation Logic :

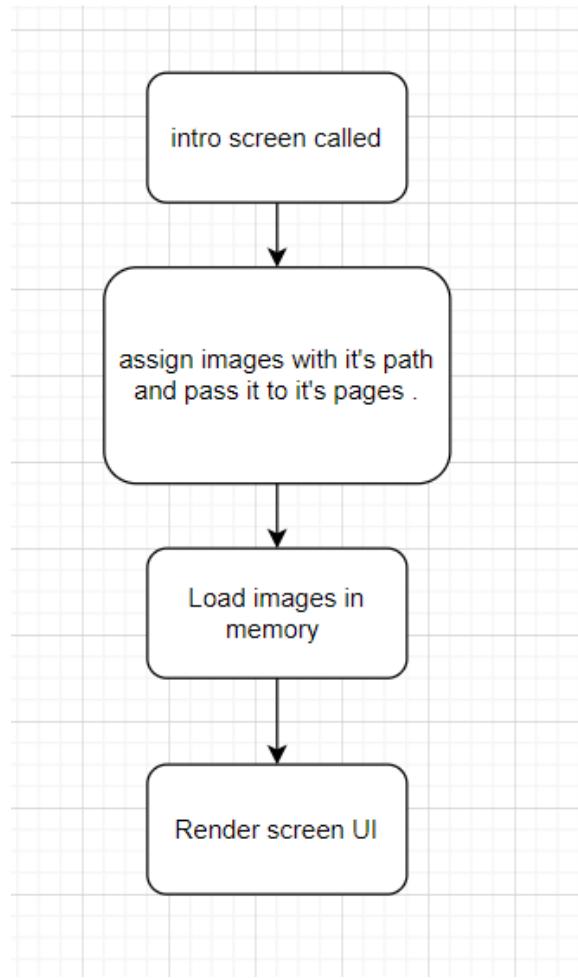






# Introduction screen

**\*\* Page code Logic :**



- render UI screen mean show first screen which is “ORGANIC WASTER ” screen .

1. before rendering page UI , we need to assign images with it's path and pages :

```

@Override
void initState() {
    /**
     * initialize images with it's path
     */
    image1 = const AssetImage('assets/introduction_images/organic_basket.png');
    image2 = const AssetImage('assets/introduction_images/plastic_basket.png');
    image3 = const AssetImage('assets/introduction_images/glass_basket.png');
    image4 = const AssetImage('assets/introduction_images/paper_basket.png');
    /**
     * initialize introPages List to load pages with images , text , indicator m colors and
     buttons .
     */
    introPages = [
        Page1(image: image1, controller: pageController),
        Page2(image: image2, controller: pageController),
    ]
}
  
```

```

        Page3(image: image3, controller: pageController),
        Page4(image: image4, controller: pageController),
    ];
    super.initState();
}

```

2. we need to load these images to avoid loading glitch that effect on user experience :

```

@Override
/**
 * To make images preloaded while splash animation working , to increase the
 performance of the application
 */
void didChangeDependencies() {
    /**
     * load image to memory to avoid loading glitch .
     */
    super.didChangeDependencies();
    precacheImage(image1, context);
    precacheImage(image2, context);
    precacheImage(image3, context);
    precacheImage(image4, context);
}

```

3. after loading images in memory , render UI :

```

@Override
Widget build(BuildContext context) {
    return Scaffold(
        body: SafeArea(
            /**
             * page View Widget
             */
            child: PageView.builder(
                controller: pageController,
                itemCount: introPages.length,
                itemBuilder: ((context, index) {
                    return introPages[index];
                }),
            ),
        ),
    );
}

```

- the full code :

```

import 'package:flutter/material.dart';
import 'package:green_egypt/screens/introduction_screen/introduction_screen_pages/page1.dart';
import 'package:green_egypt/screens/introduction_screen/introduction_screen_pages/page2.dart';
import 'package:green_egypt/screens/introduction_screen/introduction_screen_pages/page3.dart';
import 'package:green_egypt/screens/introduction_screen/introduction_screen_pages/page4.dart';

class IntroductionScreen extends StatefulWidget {
  const IntroductionScreen({Key? key}) : super(key: key);

  @override
  State<IntroductionScreen> createState() => _IntroductionScreenState();
}

class _IntroductionScreenState extends State<IntroductionScreen> {
  /**
   * Page Controller Object that used with both PageView Widget and smoothIndicator package
   */
  final pageController = PageController();

  late AssetImage image1;
  late AssetImage image2;
  late AssetImage image3;
  late AssetImage image4;
  /**
   * Object that will carry all intro Screen Pages .
   */
  List<Widget> introPages = [];
  @override
  void initState() {
    /**
     * Pages background Images
     */
    super.initState();
    /**
     * initialize images with it's path
     */
    image1 = const AssetImage('assets/introduction_images/organic_basket.png');
    image2 = const AssetImage('assets/introduction_images/plastic_basket.png');
    image3 = const AssetImage('assets/introduction_images/glass_basket.png');
    image4 = const AssetImage('assets/introduction_images/paper_basket.png');
    /**
     * initialize introPages List to load pages with images , text , indicator m colors and buttons .
     */
    introPages = [
      Page1(image: image1, controller: pageController),
      Page2(image: image2, controller: pageController),

```

```

        Page3(image: image3, controller: pageController),
        Page4(image: image4, controller: pageController),
    ];
}

@Override
/**
 * To make images preloaded while splash animation working , to increase the performance
of the application
 */
void didChangeDependencies() {
    /**
     * load image to memory to avoid loading glitch .
     */
    super.didChangeDependencies();
    precacheImage(image1, context);
    precacheImage(image2, context);
    precacheImage(image3, context);
    precacheImage(image4, context);
}

@Override
Widget build(BuildContext context) {
    return Scaffold(
        body: SafeArea(
            /**
             * page View Widget
             */
            child: PageView.builder(
                controller: pageController,
                itemCount: introPages.length,
                itemBuilder: ((context, index) {
                    return introPages[index];
                }),
            ),
        ),
    );
}
}

```

**\*\* Intro screen consist of 4 pages :**





## **\*\* Each page code :**

- page 1 - ORGANIC WASTE :



```
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:smooth_page_indicator/smooth_page_indicator.dart';

class Page1 extends StatelessWidget {
  int pageIndex = 1;
  String heroTag = "tag";
  Color pageColor = Color(0xFF9EB235);
  late AssetImage image;
  late PageController controller;
  Page1({required this.image, required this.controller});

  @override
  Widget build(BuildContext context) {
    /**
     * Outer container that consider main block
     */
    return Container(
      width: Get.width,
      height: Get.height,
      child: Column(
        children: [

```

```

/**
 * container that hold image and cirlce background
 */
Container(
    width: Get.width,
    height: Get.height * .6,
    child: Stack(
        children: [
            Align(
                alignment: Alignment.center,
                child: CircleAvatar(
                    backgroundColor: pageColor.withOpacity(.4),
                    radius: Get.width * .4,
                ),
            ),
            Align(
                alignment: Alignment.center,
                child: Hero(
                    tag: heroTag,
                    child: Column(
                        mainAxisAlignment: MainAxisAlignment.center,
                        children: [
                            SizedBox(
                                height: Get.height * .03,
                            ),
                            Image(
                                image: this.image,
                                width: Get.width * .55,
                            ),
                        ],
                    ),
                ),
            ),
        ],
    ),
),
/***
 * Container that contain text , page indicator and button
 */
Container(
    child: Column(
        children: [
            Text(
                "ORGANIC",
                style: TextStyle(
                    color: pageColor,
                    fontSize: 32,
                    fontWeight: FontWeight.bold),
            ),
            Text(
                "WASTE",
                style: TextStyle(
                    color: pageColor.withOpacity(.7),
                    fontSize: 32,
                ),
            ),
        ],
    ),
),

```

```

        fontWeight: FontWeight.bold),
),
SizedBox(
    height: Get.height * .02,
),
/***
 * page Caption
 */
Padding(
    padding: EdgeInsets.symmetric(horizontal: 24),
    child: Text(
        "Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s",
        textAlign: TextAlign.center,
    ),
),
SizedBox(
    height: Get.height * .05,
),
/***
 * Page Indicator
 */
SmoothPageIndicator(
    controller: controller,
    count: 4,
    effect: SlideEffect(
        spacing: 18.0,
        radius: 4.0,
        dotWidth: 24.0,
        dotHeight: 16.0,
        paintStyle: PaintingStyle.stroke,
        strokeWidth: 1.5,
        dotColor: Colors.grey,
        activeDotColor: pageColor),
    )
],
),
),
SizedBox(
    height: Get.height * .05,
),
/***
 * Next Button
 */
ElevatedButton(
    style: ButtonStyle(
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
            RoundedRectangleBorder(
                borderRadius: BorderRadius.circular(16))),
        backgroundColor: MaterialStateProperty.all<Color>(pageColor)),
    onPressed: () {
        controller.nextPage(
            duration: Duration(milliseconds: 750),
            curve: Curves.easeInOut);
    }
)
);

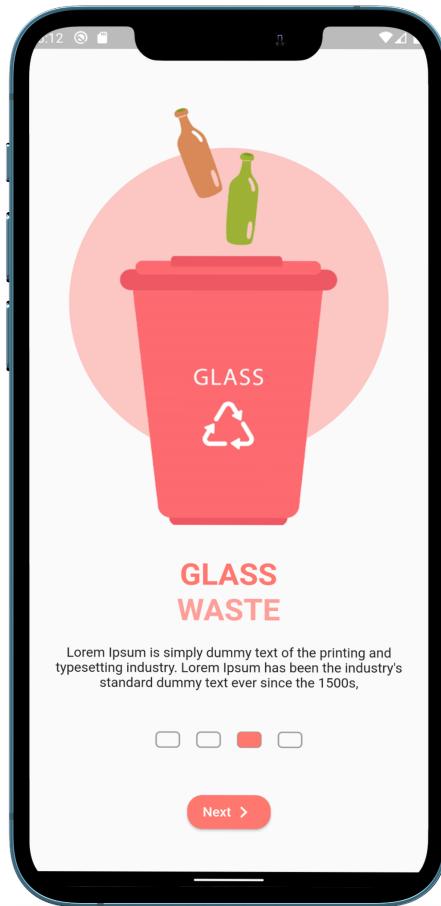
```

```

        },
        child: Row(
          mainAxisAlignment: MainAxisAlignment.end,
          children: [Text("Next"), Icon(Icons.navigate_next_outlined)],
        )));
      ],
    ),
  );
}

```

- page 2 - PLASTIC WASTE :



```

import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:smooth_page_indicator/smooth_page_indicator.dart';

class Page2 extends StatelessWidget {
  String heroTag = "tag";
  Color pageColor = Color(0xFF9E9ED1);

```

```

late AssetImage image;
late PageController controller;
Page2({required this.image, required this.controller});

@Override
Widget build(BuildContext context) {
    return Container(
        width: Get.width,
        height: Get.height,
        child: Column(
            children: [
                Container(
                    width: Get.width,
                    height: Get.height * .6,
                    child: Stack(
                        children: [
                            Align(
                                alignment: Alignment.center,
                                child: CircleAvatar(
                                    backgroundColor: pageColor.withOpacity(.4),
                                    radius: Get.width * .4,
                                ),
                            ),
                            Align(
                                alignment: Alignment.center,
                                child: Hero(
                                    tag: heroTag,
                                    child: Column(
                                        mainAxisAlignment: MainAxisAlignment.center,
                                        children: [
                                            SizedBox(
                                                height: Get.height * .03,
                                            ),
                                            Image(
                                                image: this.image,
                                                width: Get.width * .55,
                                            ),
                                        ],
                                    ),
                                ),
                            ),
                        ],
                    ),
                ),
                Container(
                    child: Column(
                        children: [
                            Text(
                                "PLASTIC",
                                style: TextStyle(
                                    color: pageColor,
                                    fontSize: 32,
                                    fontWeight: FontWeight.bold),
                            ),
                        ],
                    ),
                ),
            ],
        ),
    );
}

```

```

        Text(
            "WASTE",
            style: TextStyle(
                color: pageColor.withOpacity(.7),
                fontSize: 32,
                fontWeight: FontWeight.bold),
        ),
        SizedBox(
            height: Get.height * .02,
        ),
        Padding(
            padding: EdgeInsets.symmetric(horizontal: 24),
            child: Text(
                "Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s",
                textAlign: TextAlign.center,
            ),
        ),
        SizedBox(
            height: Get.height * .05,
        ),
        SmoothPageIndicator(controller: controller, count: 4,
            effect: SlideEffect(
                spacing: 18.0,
                radius: 4.0,
                dotWidth: 24.0,
                dotHeight: 16.0,
                paintStyle: PaintingStyle.stroke,
                strokeWidth: 1.5,
                dotColor: Colors.grey,
                activeDotColor: pageColor),)
    ],
),
),
SizedBox(
    height: Get.height * .05,
),
ElevatedButton(
    style: ButtonStyle(
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
            RoundedRectangleBorder(
                borderRadius: BorderRadius.circular(16))),
        backgroundColor: MaterialStateProperty.all<Color>(pageColor)),
    onPressed: () {
        controller.nextPage(
            duration: Duration(milliseconds: 750), curve: Curves.ease);
    },
    child: Row(
        mainAxisAlignment: MainAxisAlignment.end,
        children: [Text("Next"), Icon(Icons.navigate_next_outlined)],
    )));
],
);

```

```
}
```

- page 3 - GLASS WASTE :



```
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:smooth_page_indicator/smooth_page_indicator.dart';

class Page3 extends StatelessWidget {
    String heroTag = "tag";
    Color pageColor = Color(0xFFFF7870);
    late AssetImage image;
    late PageController controller;
    Page3({required this.image, required this.controller});

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

```

return Container(
  width: Get.width,
  height: Get.height,
  child: Column(
    children: [
      Container(
        width: Get.width,
        height: Get.height * .6,
        child: Stack(
          children: [
            Align(
              alignment: Alignment.center,
              child: CircleAvatar(
                backgroundColor: pageColor.withOpacity(.4),
                radius: Get.width * .4,
              ),
            ),
            Align(
              alignment: Alignment.center,
              child: Hero(
                tag: heroTag,
                child: Column(
                  mainAxisAlignment: MainAxisAlignment.center,
                  children: [
                    SizedBox(
                      height: Get.height * .03,
                    ),
                    Image(
                      image: this.image,
                      width: Get.width * .55,
                    ),
                  ],
                ),
              ),
            ),
          ],
        ),
      ),
      Container(
        child: Column(
          children: [
            Text(
              "GLASS",
              style: TextStyle(
                color: pageColor,
                fontSize: 32,
                fontWeight: FontWeight.bold),
            ),
            Text(
              "WASTE",
              style: TextStyle(
                color: pageColor.withOpacity(.7),
                fontSize: 32,
                fontWeight: FontWeight.bold),
            )
          ],
        ),
      ),
    ],
  ),
);

```

```

),
SizedBox(
    height: Get.height * .02,
),
Padding(
    padding: EdgeInsets.symmetric(horizontal: 24),
    child: Text(
        "Lorem Ipsum is simply dummy text of the printing and typesetting indu-
stry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s",
        textAlign: TextAlign.center,
    ),
),
SizedBox(
    height: Get.height * .05,
),
SmoothPageIndicator(
    controller: controller,
    count: 4,
    effect: SlideEffect(
        spacing: 18.0,
        radius: 4.0,
        dotWidth: 24.0,
        dotHeight: 16.0,
        paintStyle: PaintingStyle.stroke,
        strokeWidth: 1.5,
        dotColor: Colors.grey,
        activeDotColor: pageColor),
    )
],
),
),
SizedBox(
    height: Get.height * .05,
),
ElevatedButton(
    style: ButtonStyle(
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
            RoundedRectangleBorder(
                borderRadius: BorderRadius.circular(16))),
        backgroundColor: MaterialStateProperty.all<Color>(pageColor)),
    onPressed: () {
        controller.nextPage(
            duration: Duration(milliseconds: 750), curve: Curves.ease);
    },
    child: Row(
        mainAxisAlignment: MainAxisAlignment.min,
        children: [Text("Next"), Icon(Icons.navigate_next_outlined)],
    )));
],
),
);
}
}

```

- page 4 - PAPER WASTE :



```
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:green_egypt/config/pages_names.dart';
import 'package:green_egypt/services/Shared_preferences/first_launch.dart';
import 'package:smooth_page_indicator/smooth_page_indicator.dart';

class Page4 extends StatelessWidget {
    String heroTag = "tag";
    Color pageColor = Color(0xFFFFCA38);
    late AssetImage image;
    late PageController controller;
    Page4({required this.image, required this.controller});

    @override
    Widget build(BuildContext context) {
        return Container(
```

```

width: Get.width,
height: Get.height,
child: Column(
  children: [
    Container(
      width: Get.width,
      height: Get.height * .6,
      child: Stack(
        children: [
          Align(
            alignment: Alignment.center,
            child: CircleAvatar(
              backgroundColor: pageColor.withOpacity(.4),
              radius: Get.width * .4,
            ),
          ),
          Align(
            alignment: Alignment.center,
            child: Hero(
              tag: heroTag,
              child: Column(
                mainAxisAlignment: MainAxisAlignment.center,
                children: [
                  SizedBox(
                    height: Get.height * .03,
                  ),
                  Image(
                    image: this.image,
                    width: Get.width * .55,
                  ),
                ],
              ),
            ),
          ),
        ],
      ),
    ),
    Container(
      child: Column(
        children: [
          Text(
            "PAPER",
            style: TextStyle(
              color: pageColor,
              fontSize: 32,
              fontWeight: FontWeight.bold),
          ),
          Text(
            "WASTE",
            style: TextStyle(
              color: pageColor.withOpacity(.7),
              fontSize: 32,
              fontWeight: FontWeight.bold),
        ),
      ],
    ),
  ],
)

```

```

        SizedBox(
            height: Get.height * .02,
        ),
        Padding(
            padding: EdgeInsets.symmetric(horizontal: 24),
            child: Text(
                "Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s",
                textAlign: TextAlign.center,
            ),
        ),
        SizedBox(
            height: Get.height * .05,
        ),
        SmoothPageIndicator(
            controller: controller,
            count: 4,
            effect: SlideEffect(
                spacing: 18.0,
                radius: 4.0,
                dotWidth: 24.0,
                dotHeight: 16.0,
                paintStyle: PaintingStyle.stroke,
                strokeWidth: 1.5,
                dotColor: Colors.grey,
                activeDotColor: pageColor),
        )
    ],
),
),
),
),
SizedBox(
    height: Get.height * .05,
),
ElevatedButton(
    style: ButtonStyle(
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
            RoundedRectangleBorder(
                borderRadius: BorderRadius.circular(16))),
        backgroundColor: MaterialStateProperty.all<Color>(pageColor)),
    onPressed: () async {
        await FirstLaunch.changeFirstLaunchValue()
        .then((value) => Get.offNamed(PagesNames.startScreen));
    },
    child: Row(
        mainAxisAlignment: MainAxisAlignment.min,
        children: [Text("Start"), Icon(Icons.navigate_next_outlined)],
    )));
),
);
}
}

```



# Start Page

```
import 'package:animated_text_kit/animated_text_kit.dart';
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:green_egypt/config/constants.dart';
import 'package:green_egypt/config/images_paths.dart';
import 'package:green_egypt/config/pages_names.dart';

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

    @override
    Widget build(BuildContext context) {
        return Scaffold(
            body: Container(
                width: Get.width,
                height: Get.height,
                decoration: BoxDecoration(
                    image: DecorationImage(
                        fit: BoxFit.cover,
                        /**
                         * Adding dark layer on the image
                         */
                        colorFilter: ColorFilter.mode(
                            Colors.black.withOpacity(0.3), BlendMode.darken),
                        /**
                         * start page background Image
                         */
                        image: AssetImage(ImagesPaths.startPageImagePath),
                    ),
                ),
                child: SafeArea(
                    child: Padding(
                        padding: const EdgeInsets.all(16.0),
                        child: Column(
                            mainAxisAlignment: MainAxisAlignment.end,
                            children: [
                                /**
                                 * Row of recycling icon and Animated Text
                                 */
                                Row(
                                    children: [
                                        Hero(
                                            tag: Constants.recyclingIconTag,
                                            child: Icon(
                                                Icons.recycling_outlined,
                                                color: Colors.green,
                                            ),
                                        ),
                                        AnimatedTextKit(
                                            text: "Recycling Center",
                                            animatedTextType: AnimatedTextType.wavy,
                                            duration: Duration(seconds: 3),
                                            textStyle: TextStyle(
                                                color: Colors.white,
                                                fontSize: 24,
                                                fontWeight: FontWeight.bold,
                                            ),
                                            alignment: Alignment.center,
                                        ),
                                    ],
                                ),
                            ],
                        ),
                    ),
                ),
            ),
        );
    }
}
```

```

        size: 56,
    ),
),
SizedBox(
    width: 12,
),
/***
 * Animated text "Green_Egypt"
 */
AnimatedTextKit(
    repeatForever: true,
    animatedTexts: [
        TypewriterAnimatedText(
            'Green_Egypt 🌿',
            speed: Duration(milliseconds: 500),
            textStyle:
                TextStyle(color: Colors.white, fontSize: 24),
        ),
    ],
),
SizedBox(
    height: 24,
),
Text(
    "Don't have an Account !",
    style: TextStyle(color: Colors.white),
),
SizedBox(
    height: 12,
),
/***
 * Register button
 */
OutlinedButton(
    style: ButtonStyle(
        side: MaterialStateProperty.all<BorderSide>(
            BorderSide(color: Colors.green, width: 2)),
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
            RoundedRectangleBorder(
                side: BorderSide(color: Colors.green),
                borderRadius: BorderRadius.circular(16),
            ),
        ),
    ),
    onPressed: () {
        /**
         * Navigate to Register Page
         */
        Get.toNamed(PagesNames.registerPage);
    },
    child: Row(
        mainAxisAlignment: MainAxisAlignment.center,

```

```

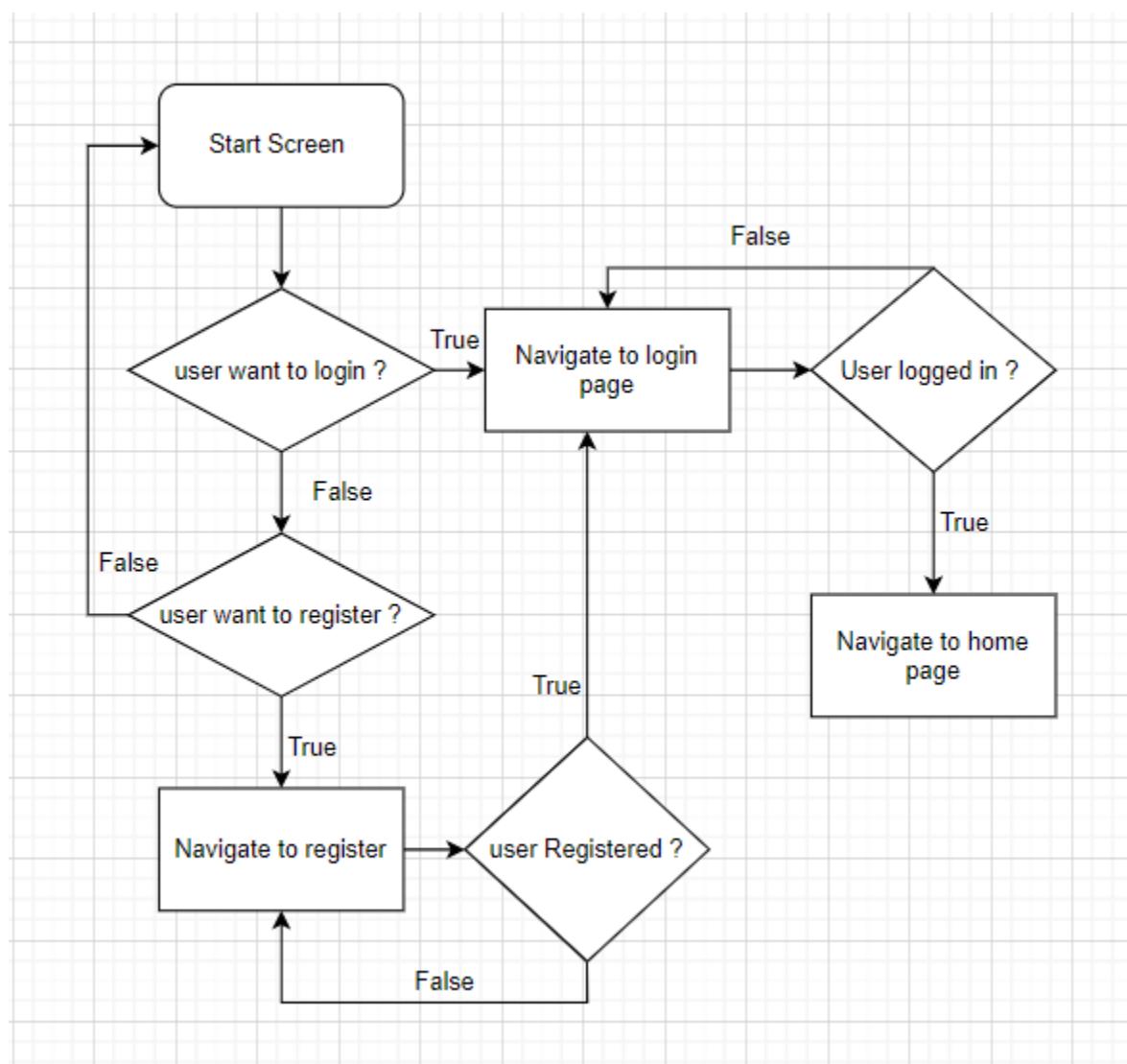
        children: [
          Text(
            "Register",
            style: TextStyle(color: Colors.white),
          ),
          SizedBox(
            width: 12,
          ),
          Icon(
            Icons.person_add_alt_outlined,
            color: Colors.green,
          )
        ],
      ),
      SizedBox(
        height: 12,
      ),
      Text(
        "Already have an Account !",
        style: TextStyle(color: Colors.white),
      ),
      SizedBox(
        height: 12,
      ),
    /**
     * Login button
     */
    ElevatedButton(
      style: ButtonStyle(
        shape: MaterialStateProperty.all<RoundedRectangleBorder>(
          RoundedRectangleBorder(
            side: BorderSide(color: Colors.green),
            borderRadius: BorderRadius.circular(16),
          ),
        ),
        backgroundColor:
          MaterialStateProperty.all<Color>(Colors.green)),
      onPressed: () {
        Get.toNamed(PagesNames.loginScreen);
      },
      child: Row(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Text(
            "Login",
            style: TextStyle(color: Colors.white, fontSize: 16),
          ),
          SizedBox(
            width: 12,
          ),
          Icon(
            Icons.done_all_outlined,
            color: Colors.white,
          )
        ],
      ),
    ),
  ],
)

```

```

        ),
        ],
        ),
        ),
        ),
        ),
        ),
        ),
        );
    }
}

```







# main.dart

```
import 'package:firebase_core/firebase_core.dart';
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:green_egypt/config/pages_names.dart';
import 'package:green_egypt/firebase_options.dart';
import 'package:green_egypt/services/Shared_preferences/shared_preferences_class.dart';

void main() async {
    // this line because i made main method Async 🚀
    WidgetsFlutterBinding.ensureInitialized();
    // to initiate all Application Shared Preferences in one line 🔥 .
    await SharedPreferencesClass.initAllSharedPreferences();
    /**
     * Initializing Firebase on Application Level .
     */
    await Firebase.initializeApp(
        options: DefaultFirebaseOptions.currentPlatform,
    );
    // run Flutter ❤️
    runApp(GreenEgypt());
}

class GreenEgypt extends StatelessWidget {
    const GreenEgypt({Key? key}) : super(key: key);

    @override
    Widget build(BuildContext context) {
        return GetMaterialApp(
            title: "Green_Egypt 🌿",

```

```

    /**
     * Hide debug banner
     */
    debugShowCheckedModeBanner: false,
    /**
     * all application Routes are stored in 1 variable for cleaner code :
     */
    getPages: PagesNames.listOfPages,
    /**
     * Application will start from splash Screen ,
     * then intro if application opened for first time .
     * else application will open directly on login if user not logged .
     * if user logged , open on main page "will be implemented tomorrow" .
     */
    initialRoute: PagesNames.splachScreen,
);
}
}

```

## \*\* SharedPreferences that we initialize before launching our app :

- file : shared\_preferences\_class.dart

```

class SharedPreferencesClass {
    static Future<void> initAllSharedPreferences() async {
        await FirstLaunch.init();
        await UserDataModel.initiateUserDataModelSharedPref();
    }
}

```

### 1. FirstLaunch.init() :

```

import 'package:shared_preferences/shared_preferences.dart';

class FirstLaunch {
    /**
     * Shared preferences Object
     */
    static late SharedPreferences firstLaunchBoolSharedPref;
    static const String firstLaunchTag = 'firstLaunchDone';
    static late bool firstLaunchDoneBool;

    static Future<void> init() async {
        firstLaunchBoolSharedPref = await SharedPreferences.getInstance();
        /**
         * if firstLaunch sharedPref not contain the value of firstLaunchBool ,
         * it mean that the application is first tipme opened , so
         * make it's value is false .
        */
    }
}

```

```

        * else , it will contain the value then assign the variable with it .
    */

// if the value == null , it mean app first time opened , assign value with false .
firstLaunchDoneBool =
    firstLaunchBoolSharedPref.getBool(firstLaunchTag) ?? false;
firstLaunchBoolSharedPref.getBool(firstLaunchTag) == null
    ? await firstLaunchBoolSharedPref.setBool(firstLaunchTag, false)
    : null;
}

// to return stored value

static bool getFirstLaunchDoneBool() {
    return firstLaunchDoneBool;
}

// change firstTimeLaunchBool from false to true .
static Future<void> changeFirstLaunchValue() async {
    firstLaunchDoneBool =
        await firstLaunchBoolSharedPref.setBool(firstLaunchTag, true);
}
}

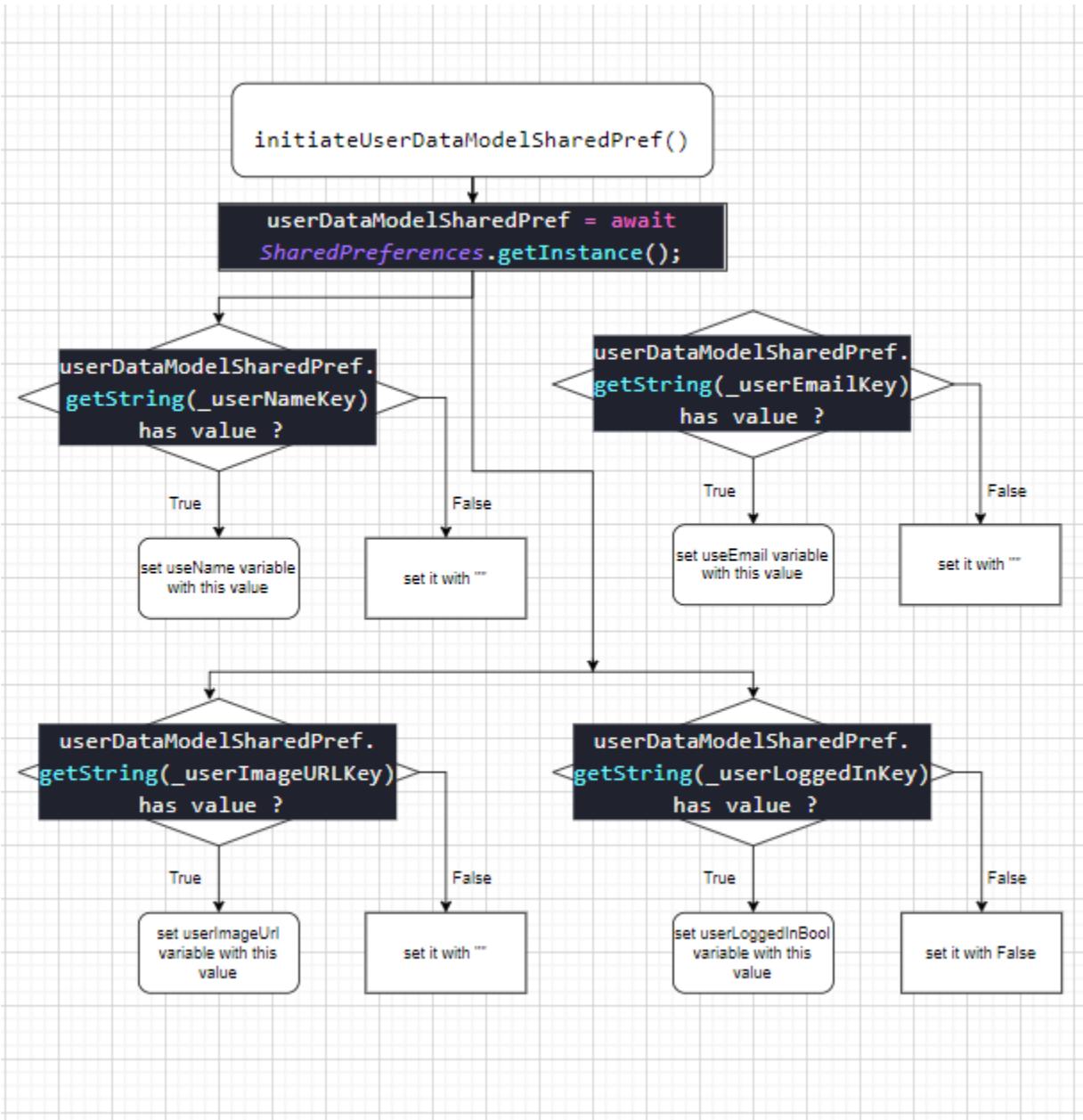
```

## 2. UserDataModel.initiateUserDataModelSharedPref ( ) :

```

static Future<void> initiateUserDataModelSharedPref() async {
    userDataModelSharedPref = await SharedPreferences.getInstance();
    userName = userDataModelSharedPref.getString(_userNameKey) ?? "";
    userEmail = userDataModelSharedPref.getString(_userEmailKey) ?? "";
    userImageURL = userDataModelSharedPref.getString(_userImageURLKey) ?? "";
    userLoggedIn = userDataModelSharedPref.getBool(_userLoggedInKey) ?? false;
    print('user logged bool initialized and it\'s value is $userLoggedIn');
}

```



## \*\* whole class implementation :

```

import 'package:shared_preferences/shared_preferences.dart';

class UserDataModel {
    /**
     * User Data model variables
     */
    static late String userName;
    static late String userImageURL;
    static late String userEmail;
}

```

```

static late bool userLoggedIn;
/**
 * user Shared prefs keys - private Access .
 */
static String _userEmailKey = "userEmailKey";
static String _userNameKey = "userNameKey";
static String _userImageURLKey = "userImageURLKey";
static String _userLoggedInKey = "userLoggedIn";

/**
 * userDataModelSharedPref Object :
 */
static late SharedPreferences userDataModelSharedPref;

/**
 * method tnat called before runnig application .
 */
static Future<void> initiateUserDataModelSharedPref() async {
 /**
 * Get instance of sharedPreferences class
 */
userDataModelSharedPref = await SharedPreferences.getInstance();
 /**
 * if userDataModelSharedPref contain userName stored in ,
 * it mean that user logged in before and user name is stored .
 * so return this value , else , return "" .
 */
userName = userDataModelSharedPref.getString(_userNameKey) ?? "";
 /**
 * if userDataModelSharedPref contain userName stored in ,
 * it mean that user logged in before and user name is stored .
 * so return this value , else , return "" .
 */
userEmail = userDataModelSharedPref.getString(_userEmailKey) ?? "";
 /**
 * if userDataModelSharedPref contain userEmail stored in ,
 * it mean that user logged in before and user email is stored .
 * so return this value , else , return "" .
 */
userImageURL = userDataModelSharedPref.getString(_userImageURLKey) ?? "";
 /**
 * if userDataModelSharedPref contain userImageUrl stored in ,
 * it mean that user logged in before and user image url is stored .
 * so return this value , else , return "" .
 */
userLoggedIn = userDataModelSharedPref.getBool(_userLoggedInKey) ?? false;
 /**
 * if userDataModelSharedPref contain userLoggedInBool value stored in ,
 * it mean that user logged in before and user logged in boolean value is stored .
 * so return this value , else , return "" .
 */
print('user logged bool initialized and it\'s value is $userLoggedIn');
}

```

```

/**
 * while Signing in , this method is called to store all user data .
 * it take as arguments :
 * 1- userName
 * 2- userEmail
 * 3- UserImageUrl
 * and add them into userDataModelSharedPref Object
 */
static Future<void> initiateUserDataModel(
    required String name,
    required String email,
    required String imageUrl}) async {
    /**
     * initialize userName in userDataModelSharedPref
     */
    await userDataModelSharedPref.setString(_userNameKey, name);
    /**
     * initialize userEmail in userDataModelSharedPref
     */
    await userDataModelSharedPref.setString(_userEmailKey, email);
    /**
     * initialize userImageUrl in userDataModelSharedPref
     */
    await userDataModelSharedPref.setString(_userImageURLKey, imageUrl);
    /**
     * initialize userLoggedInBool in userDataModelSharedPref
     */
    await userDataModelSharedPref.setBool(_userLoggedInKey, true);
}

/**
 * method is called when user logged out to reset all userDataModel values .
 */
static Future<void> userLoggedOut() async {
    // reset userName in userDataModel Object to ""
    await userDataModelSharedPref.setString(_userNameKey, "");
    // reset userEmail in userDataModel Object to ""
    await userDataModelSharedPref.setString(_userEmailKey, "");
    // reset userImageUrl in userDataModel Object to ""
    await userDataModelSharedPref.setString(_userImageURLKey, "");
    // reset userLoggedInBool in userDataModel Object to false
    await userDataModelSharedPref.setBool(_userLoggedInKey, false);
}

// return user name - String
static String getUserName() {
    return userName;
}

// return user email - String
static String getUserEmail() {
    return userEmail;
}

```

```
// return user image url - String
static String getImageUrl() {
    return userImageURL;
}

// return userLoggedInBool - boolean
static bool getUserLoggedInBool() {
    return userLoggedIn;
}
```