**Project report**

**On**

Artwork Ordering App using Android Studio



**Bachelor of Technology (Computer Science)**

**(Session: 2018-2022)**

|  |  |
| --- | --- |
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**Kurukshetra University, Kurukshetra – 136119**



Declaration

I hereby declare that the Project Report entitled “Artwork Ordering App using Android Studio” is an authentic record of my own work as requirements of Industrial Training during the period from 27 May, 2020 to 08 July, 2020 for the award of degree of B.Tech. (Computer Science), UIET, KUK, under the guidance of Mr. Harsh Deep Singh and Ms. Kopal Seth, Senior Educator and Instructional Designer at Internshala Trainings .

Aditya

251802104

Computer Science (B)

Date:

Acknowledgment

A formal statement of acknowledgement is hardly sufficient to express my gratitude towards the personalities who have helped me to undertake and complete this project.

It is matter of great pleasure for me to have the opportunity of carrying out this project report on “Artwork Ordering App using Android Studio”. I would like to thank Dr. C.C. Tripathi, Dr. Sanjeev Ahuja and Dr.Nikhil Marriwala for giving this great opportunity. I would like to express my most sincere gratitude and appreciation to project teachers at Internshala Trainings for supervising work. Their fruitful suggestions, friendly attitude and continued encouragement were the sources of inspiration for me at every stage of my work.

I also acknowledge with a deep sense of reverence, my gratitude towards my parents and member of my family, who has always supported me morally as well as economically.

I would also like to express my gratitude towards Ms. Tulika and Dr. Ravi Bhushan Kumar for allowing me to use their beautiful artworks.

At last but not least gratitude goes to all who helped me directly or indirectly for the successful of my training.

Thanking You

Aditya

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**Chapter. 1**

**Introduction**

In this project, we use Android Studio to build an artwork ordering app, where users can scroll and view different artworks in the gallery and then place order on the artworks of their choice. The artworks used in this app are the intellectual properties of me and Ms. Tulika and Dr. Ravi Bhushan Kumar.

We will be basically creating activities and fragments in this app, with which the users can actually interact. We will be using Kotlin as the language for creating the backend of the app and XML for creating our frontend or User Interface.

For doing these tasks, one must have the basic knowledge of Kotlin programming language and XML and a lot of imagination and creativity.

* 1. **Android**

1. **Introduction**

Android is a complete set of software for mobile devices such as tablet computers, notebooks, smartphones, electronic book readers, set-top boxes etc.

It contains a linux-based Operating System, middleware and key mobile applications.

It can be thought of as a mobile operating system. But it is not limited to mobile only. It is currently used in various devices such as mobiles, tablets, televisions etc.

Android is a software package and linux based operating system for mobile devices such as tablet computers and smartphones.

It is developed by Google and later the OHA (Open Handset Alliance). Java language is mainly used to write the android code even though other languages can be used.

Google in 2017, announced KOTLIN as the fundamental language for development of Android Applications. KOTlLIN is a statically typed programming language based on JAVA Virtual Machine.

The goal of android project is to create a successful real-world product that improves the mobile experience for end users.

There are many code names of android such as Lollipop, Kitkat, Jelly Bean, Ice cream Sandwich, Froyo, Ecliar, Donut etc.

1. **History of Android**

The history and versions of android are interesting to know. The code names of android ranges from A to J currently, such as Aestro, Blender, Cupcake, Donut, Eclair, Froyo, Gingerbread, Honeycomb, Ice Cream Sandwitch, Jelly Bean, KitKat and Lollipop. Let's understand the android history in a sequence.

1) Initially, Andy Rubin founded Android Incorporation in Palo Alto, California, United States in October, 2003.

2) In 17th August 2005, Google acquired android Incorporation. Since then, it is in the subsidiary of Google Incorporation.

3) The key employees of Android Incorporation are Andy Rubin, Rich Miner, Chris White and Nick Sears.

4) Originally intended for camera but shifted to smart phones later because of low market for camera only.

5) Android is the nick name of Andy Rubin given by coworkers because of his love to robots.

6) In 2007, Google announces the development of android OS.

7) In 2008, HTC launched the first android mobile.

Android Version

|  |  |  |
| --- | --- | --- |
| Code Name | Version | Version Number |
| (No codename) | 1.0 | September 23, 2008 |
| Petit Four | 1.1 | February 9, 2009 |
| Cupcake | 1.5 | April 27, 2009 |
| Donut | 1.6 | September 15, 2009 |
| Eclair | 2.0- 2.1 | October 26, 2009 |
| Froyo | 2.2- 2.2.3 | May 20, 2010 |
| Gingerbread | 2.3-2.3.7 | December 6, 2010 |
| Honeycomb | 3.0-3.2.6 | February 22, 2011 |
| Ice Cream Sandwich | 4.0-4.O.4 | October 18, 2011 |
| Jelly Bean | 4.1- 4.3.1 | July 9, 2012 |
| KitKat | 4.4- 4.4.4 | October 31, 2013 |
| Lollipop | 5.0- 5.1.1 | November 12, 2014 |
| Marshmallow | 6.0- 6.0.1 | October 5, 2015 |
| Nougat | 7.0-7.1.2 | August 22, 2016 |
| Oreo | 8.0-8.1 | August 21, 2017 |
| Pie | 9.0 | August 6, 2018 |

**1.3 Features of Android**

After learning what is android, let's see the features of android. The important features of android are given below:

1) It is open-source.

2) Anyone can customize the Android Platform.

3) There are a lot of mobile applications that can be chosen by the consumer.

4) It provides many interesting features like weather details, opening screen, live RSS (Really Simple Syndication) feeds etc.

It provides support for messaging services(SMS and MMS), web browser, storage (SQLite), connectivity (GSM, CDMA, Blue Tooth, Wi-Fi etc.), media, handset layout etc.

**1.4 Categories of Android applications**

There are many android applications in the market. The top categories are:

* Entertainment
* Tools
* Communication
* Productivity
* Personalization
* Music and Audio
* Social
* Media and Video
* Travel and Local etc.

# 1.5 Android Core Building Blocks

An android **component** is simply a piece of code that has a well defined life cycle e.g. Activity, Receiver, Service etc.

The core building blocks or fundamental components of android are activities, views, intents, services, content providers, fragments and AndroidManifest.xml.

#### Activity

An activity is a class that represents a single screen. It is like a Frame in AWT.

#### View

A view is the UI element such as button, label, text field etc. Anything that you see is a view.

#### Intent

Intent is used to invoke components. It is mainly used to:

* Start the service
* Launch an activity
* Display a web page
* Display a list of contacts
* Broadcast a message
* Dial a phone call etc.

For example, you may write the following code to view the webpage.

1. Intent intent=new Intent(Intent.ACTION\_VIEW);
2. intent.setData(Uri.parse("http://www.javatpoint.com"));
3. startActivity(intent);

#### Service

Service is a background process that can run for a long time.

There are two types of services local and remote. Local service is accessed from within the application whereas remote service is accessed remotely from other applications running on the same device.

* *Content Provider*

Content Providers are used to share data between the applications.

* *Fragment*

Fragments are like parts of activity. An activity can display one or more fragments on the screen at the same time.

* *AndroidManifest.xml*

It contains informations about activities, content providers, permissions etc. It is like the web.xml file in Java EE.

* *Android Virtual Device (AVD)*

It is used to test the android application without the need for mobile or tablet etc. It can be created in different configurations to emulate different types of real devices.

* 1. **Components of an Android Application**

The major components of any android application are its Front End, and Back End.

*Front End*

The Front End of an android application is also known as the user interface, because it provides the interface for the user to actually interact with the application. XML (eXtensible Markup Language) is generally used to build the Front End of an android application.

*Back End*

Back End is where; the actual functionality of an application is defined. Logics in the backend can be programmed in JAVA or in KOTLIN programming language. In this Training, we will be using KOTLIN as our Backend language.

* 1. **Artwork Ordering App**

We will be building different activities, adapter file and fragments for the user to interact with the application. The different activities which we will be designing are as follows:

* Splash Screen, which will appear when the application is launched.
* Login Activity, this will appear only for one-time login or when the user logout from the application.
* Forgot Password Activity, in case the user forgets his/her password, this activity will take mobile number and email address of the user as input.
* Register Activity, for the users who are using the application for the first time.
* Main Activity, where all the artworks will be visible to the users, to choose from
* Order Activity, where the user will be placing the order.
* Success Activity, when the order is placed successfully.

After building the above-mentioned activities, we will be building an adapter file, which will be helpful for binding views with data, that is it will be helpful for displaying the list of artworks in a scrollable list.

The fragments that we will be creating are:

* About Fragment, which will give the details about the application to the user.
* FAQ Fragment, which will contain the answers to some of the frequently asked questions that may come to the user’s mind.
* Home Fragment, which will be the home page where the user will be actually see the list of artworks.
* Profile Fragment, which will contain the details of the user with which he/she logged in into the application.

**Chapter. 2**

**Requirements**

**2.1 Hardware Requirements**

* Processors: Intel Core i5 or Intel Core i7 processor
* Disk space: 2 GB (minimum)
* Operating systems: Windows 7 or later, macOS, and Linux
* Testing System: Android Device or PC Emulator.
  1. **Software Requirements**
* Java SDK
* Android Studio IDE (with SDK bundle)
  1. **Hardware and Software used for Project**
* Processor: Intel Core i5
* Operating System: Windows 7 Home Basic
* Software used for development: Android Studio (Version 3.6.3)

**Chapter-3**

**Implementation**

**3.1 Overview**

We will be building the application in the following steps:

**3.2 Front End**

**3.2.1 Activities**

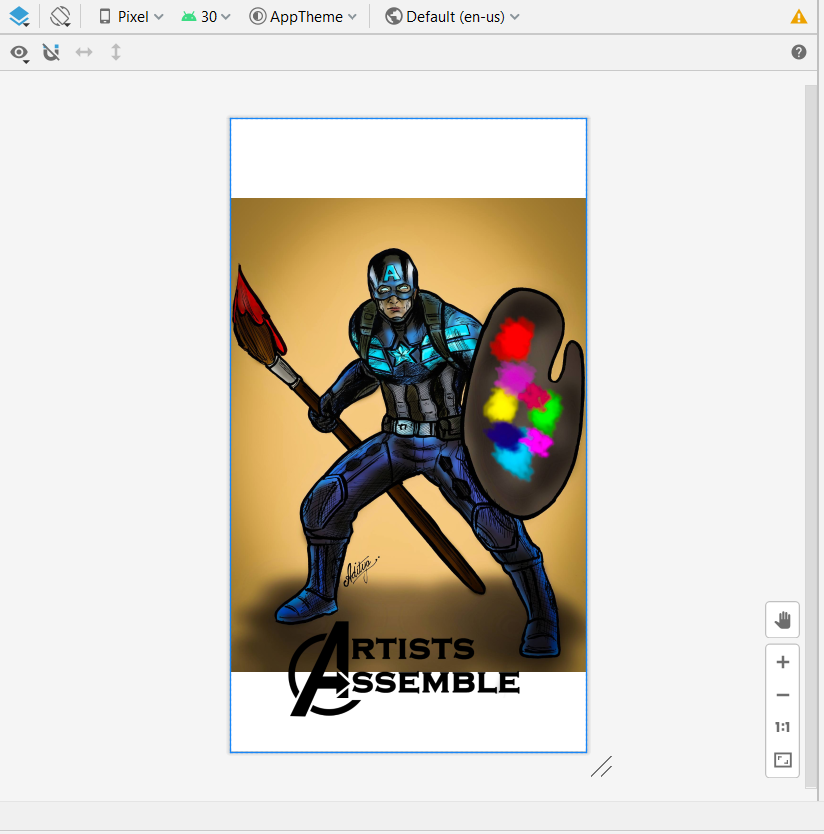
* 1. **Splash Screen**

We will start with the Splash Screen, the splash screen is the first screen that the user sees when the application is launched. We will be using XML to write the code for the splash screen

**XML Code for Splash Screen:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#ffff"  
 tools:context=".activity.SplashActivity"**>  
  
  
 <**ImageView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_centerHorizontal="true"  
 android:src="@drawable/splash"** />  
  
 <**ImageView  
 android:layout\_width="500dp"  
 android:layout\_height="190dp"  
 android:layout\_alignParentBottom="true"  
 android:padding="40dp"  
 android:src="@drawable/avengers"** />  
  
  
</**RelativeLayout**>

**Output**

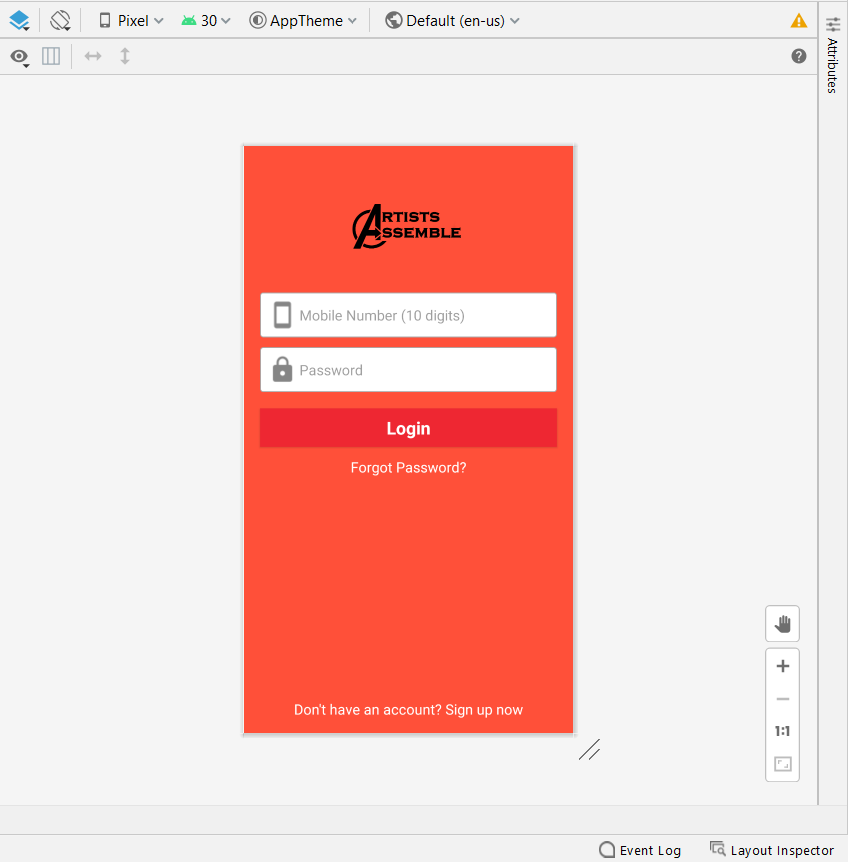


**b. Login Activity**

The Activity from where the user log in into the application, when he/ she first installs the application.

**XML Code for Login Activity:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".activity.LoginActivity"  
 android:background="@color/colorPrimary"**>  
  
 <**ImageView  
 android:layout\_width="140dp"  
 android:layout\_height="140dp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="30dp"  
 android:contentDescription="@string/app\_name"  
 android:src="@drawable/avengers"**/>  
  
 <**EditText  
 android:id="@+id/etMobileNumber"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginRight="20dp"  
 android:layout\_marginTop="12dp"  
 android:hint="@string/mobile\_number"  
 android:inputType="number"  
 android:background="@drawable/text\_boundary\_background"  
 android:maxLength="10"  
 android:drawableLeft="@drawable/ic\_action\_phone"  
 android:drawablePadding="3dp"  
 android:maxLines="1"  
 android:padding="10dp"**/>  
  
 <**EditText  
 android:id="@+id/etPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginRight="20dp"  
 android:layout\_marginTop="12dp"  
 android:hint="@string/password"  
 android:inputType="numberPassword"  
 android:maxLength="6"  
 android:background="@drawable/text\_boundary\_background"  
 android:maxLines="1"  
 android:drawableLeft="@drawable/ic\_action\_password"  
 android:drawablePadding="3dp"  
 android:padding="10dp"**/>  
  
 <**Button  
 android:id="@+id/btnLogin"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginRight="20dp"  
 android:background="@color/colorPrimaryDark"  
 android:text="@string/login"  
 android:textAllCaps="false"  
 android:textStyle="bold"  
 android:textAppearance="?android:attr/textAppearanceLarge"  
 android:textColor="@android:color/white"**/>  
  
 <**TextView  
 android:id="@+id/txtForgotPassword"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/forgot\_password"  
 android:layout\_marginTop="5dp"  
 android:padding="8dp"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/white"  
 android:layout\_gravity="center"**/>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**TextView  
 android:id="@+id/txtRegisterYourself"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:background="@color/colorPrimary"  
 android:clickable="true"  
 android:focusable="true"  
 android:textAllCaps="false"  
 android:padding="8dp"  
 android:textAlignment="center"  
 android:text="@string/register\_yourself"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/white"  
 android:layout\_marginBottom="10dp"**/>  
  
 </**RelativeLayout**>  
</**LinearLayout**>

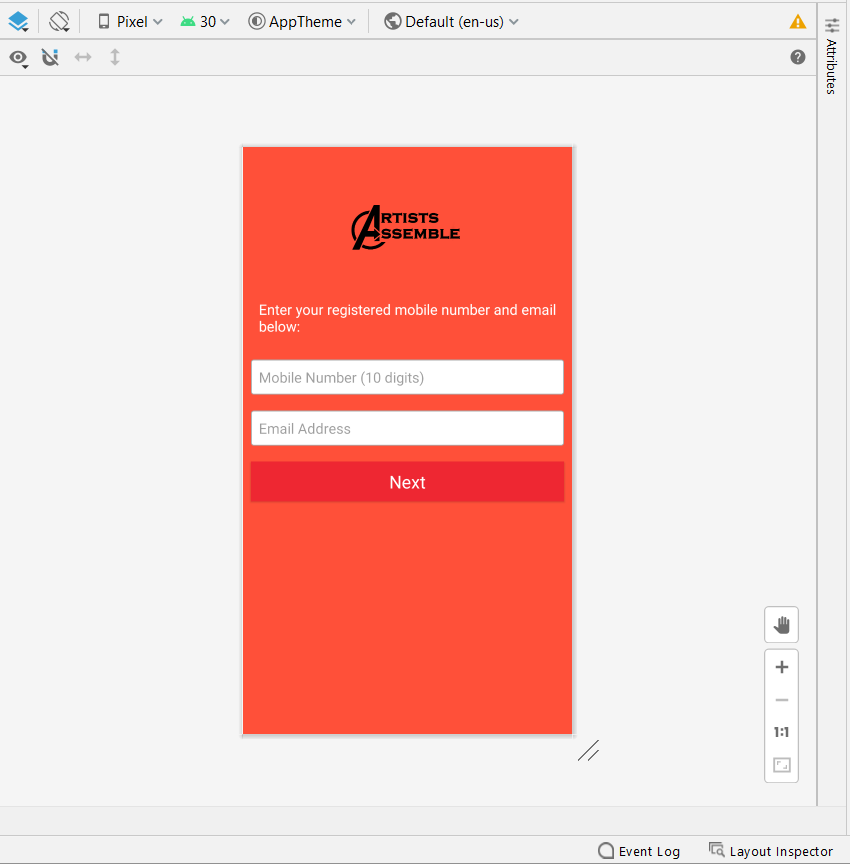
**Output** 

**c. Forgot Password Activity**

This activity will be visible when the user forgets the password, this activity will take input from the user, their mobile number and email-address which they have registered with.

**XML Code for Forgot Password Activity:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:id="@+id/rlForgotPass"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".activity.ForgotPasswordActivity"**>  
  
  
 <**RelativeLayout  
 android:id="@+id/rlContentMain"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/colorPrimary"**>  
  
 <**ImageView  
 android:id="@+id/imgAppLogo"  
 android:layout\_width="140dp"  
 android:layout\_height="140dp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="30dp"  
 android:contentDescription="@string/app\_name"  
 android:src="@drawable/avengers"** />  
  
 <**TextView  
 android:id="@+id/txtEnterMobile"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/imgAppLogo"  
 android:layout\_margin="10dp"  
 android:padding="10dp"  
 android:text="@string/enter\_mobile\_forgot\_password"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/white"** />  
  
 <**EditText  
 android:id="@+id/etForgotMobile"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/txtEnterMobile"  
 android:layout\_margin="10dp"  
 android:background="@drawable/text\_boundary\_background"  
 android:hint="@string/mobile\_number"  
 android:inputType="number"  
 android:maxLength="10"  
 android:maxLines="1"  
 android:padding="10dp"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"** />  
  
 <**EditText  
 android:id="@+id/etForgotEmail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etForgotMobile"  
 android:layout\_margin="10dp"  
 android:background="@drawable/text\_boundary\_background"  
 android:hint="@string/emailAddress"  
 android:inputType="textEmailAddress"  
 android:maxLines="1"  
 android:padding="10dp"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"** />  
  
 <**Button  
 android:id="@+id/btnForgotNext"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etForgotEmail"  
 android:layout\_margin="10dp"  
 android:background="@color/colorPrimaryDark"  
 android:padding="10dp"  
 android:text="@string/next"  
 android:textAppearance="?android:attr/textAppearanceLarge"  
 android:textColor="@android:color/white"** />  
  
 </**RelativeLayout**>  
  
</**RelativeLayout**>

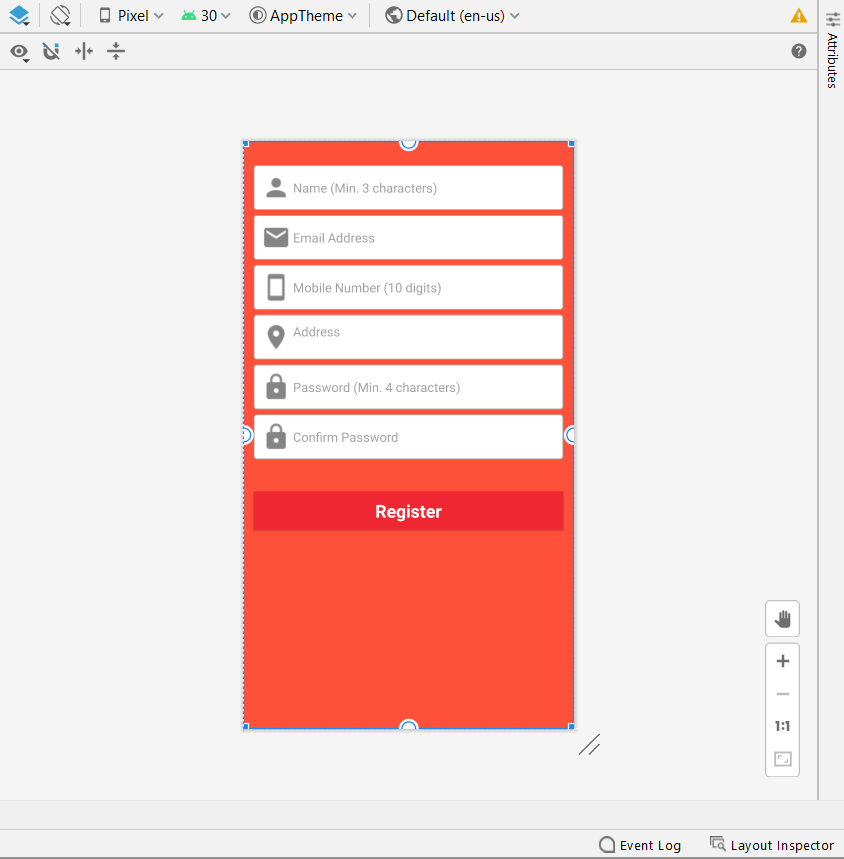
**Output:** 

**d. Register Activity**

This activity is for the users using the application for the first time, to register themselves.

**XML Code for Register Activity:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**ScrollView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@android:color/white"  
 android:fillViewport="true"  
 android:orientation="vertical"**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
  
 <**RelativeLayout  
 android:id="@+id/rlRegister"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/colorPrimary"**>  
  
 <**EditText  
 android:id="@+id/etName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
  
 android:layout\_marginLeft="12dip"  
 android:layout\_marginTop="30dip"  
 android:layout\_marginRight="12dip"  
 android:background="@drawable/text\_boundary\_background"  
 android:drawableLeft="@drawable/ic\_action\_person"  
 android:drawablePadding="3dp"  
 android:hint="@string/enter\_name"  
 android:padding="10dip"  
 android:singleLine="true"  
 android:textColor="@android:color/black"  
 android:textSize="16sp"** />  
  
 <**EditText  
 android:id="@+id/etEmail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etName"  
 android:layout\_marginLeft="12dip"  
 android:layout\_marginTop="6dip"  
 android:layout\_marginRight="12dip"  
 android:background="@drawable/text\_boundary\_background"  
 android:drawableLeft="@drawable/ic\_action\_email"  
 android:drawablePadding="3dp"  
 android:hint="@string/emailAddress"  
 android:inputType="textEmailAddress"  
 android:maxLines="1"  
 android:padding="10dip"  
 android:singleLine="true"  
 android:textColor="@android:color/black"  
 android:textSize="16sp"** />  
  
  
 <**EditText  
 android:id="@+id/etPhoneNumber"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etEmail"  
 android:layout\_marginLeft="12dip"  
 android:layout\_marginTop="6dip"  
 android:layout\_marginRight="12dip"  
 android:background="@drawable/text\_boundary\_background"  
 android:drawableLeft="@drawable/ic\_action\_phone"  
 android:drawablePadding="3dp"  
 android:hint="@string/mobile\_number"  
 android:inputType="phone"  
 android:maxLength="10"  
 android:maxLines="1"  
 android:padding="10dip"  
 android:singleLine="true"  
 android:textColor="@android:color/black"  
 android:textSize="16sp"** />  
  
 <**EditText  
 android:id="@+id/etAddress"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etPhoneNumber"  
 android:layout\_marginLeft="12dip"  
 android:layout\_marginTop="6dip"  
 android:layout\_marginRight="12dip"  
 android:background="@drawable/text\_boundary\_background"  
 android:drawableLeft="@drawable/ic\_action\_address"  
 android:drawablePadding="3dp"  
 android:gravity="top"  
 android:hint="@string/addressHome"  
 android:padding="10dip"  
 android:singleLine="true"  
 android:textColor="@android:color/black"  
 android:textSize="16sp"** />  
  
  
 <**EditText  
 android:id="@+id/etPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etAddress"  
 android:layout\_marginLeft="12dip"  
 android:layout\_marginTop="6dip"  
 android:layout\_marginRight="12dip"  
 android:background="@drawable/text\_boundary\_background"  
 android:drawableLeft="@drawable/ic\_action\_password"  
 android:drawablePadding="3dp"  
 android:hint="@string/choose\_password"  
 android:inputType="numberPassword"  
 android:maxLength="6"  
 android:padding="10dip"  
 android:singleLine="true"  
 android:textColor="@android:color/black"  
 android:textSize="16sp"** />  
  
 <**EditText  
 android:id="@+id/etConfirmPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etPassword"  
 android:layout\_marginLeft="12dip"  
 android:layout\_marginTop="6dip"  
 android:layout\_marginRight="12dip"  
 android:background="@drawable/text\_boundary\_background"  
 android:drawableLeft="@drawable/ic\_action\_password"  
 android:drawablePadding="3dp"  
 android:hint="@string/confirm\_password"  
 android:inputType="numberPassword"  
 android:maxLength="6"  
 android:padding="10dip"  
 android:singleLine="true"  
 android:textColor="@android:color/black"  
 android:textSize="16sp"** />  
  
  
 <**Button  
 android:id="@+id/btnRegister"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/etConfirmPassword"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginLeft="12dip"  
 android:layout\_marginTop="40dip"  
 android:layout\_marginRight="12dip"  
 android:background="@color/colorPrimaryDark"  
 android:text="@string/registration"  
 android:textAllCaps="false"  
 android:textAppearance="?android:attr/textAppearanceLarge"  
 android:textColor="@android:color/white"  
 android:textStyle="bold"** />  
 </**RelativeLayout**>  
  
 </**RelativeLayout**>  
</**ScrollView**>

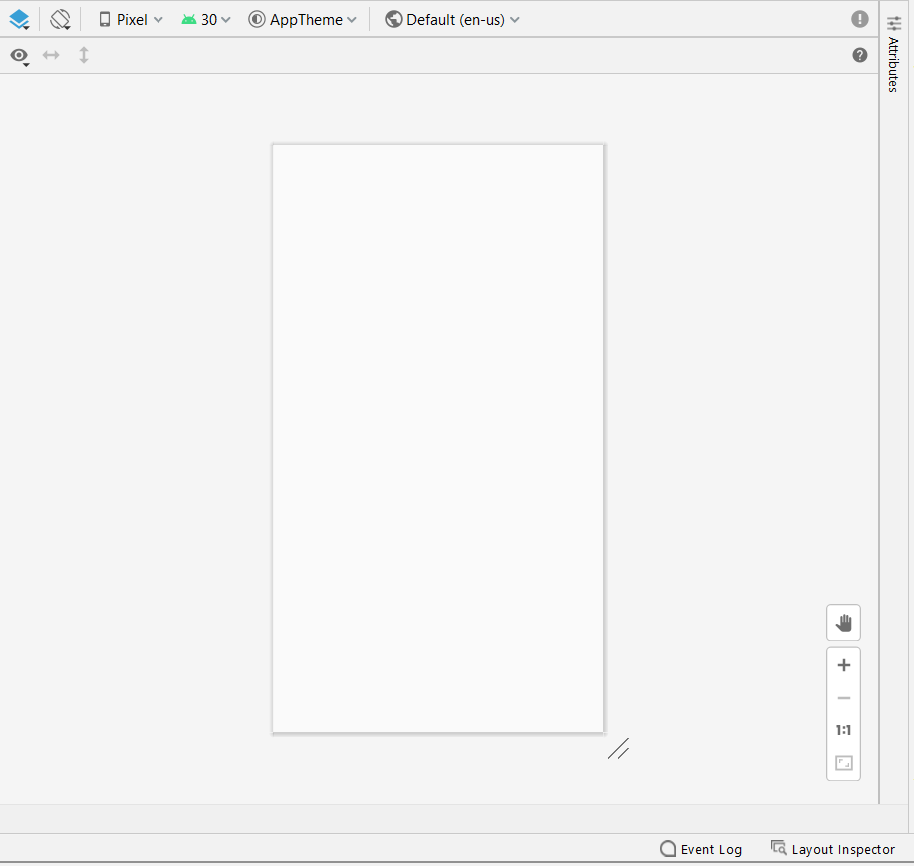
**Output:** 

**e. Main Activity**

This will be the activity which will be the base where other fragments will be displayed to the users

**XML Code for Main Activity:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.drawerlayout.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:id="@+id/drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:fitsSystemWindows="true"**>  
  
 <**androidx.coordinatorlayout.widget.CoordinatorLayout  
 android:id="@+id/coordinatorLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 app:layout\_scrollFlags="scroll|enterAlways"**>  
  
  
 <**FrameLayout  
 android:id="@+id/frame"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"  
 app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**>  
  
 </**FrameLayout**>  
  
  
 </**androidx.coordinatorlayout.widget.CoordinatorLayout**>  
  
  
 <**com.google.android.material.navigation.NavigationView  
 android:id="@+id/navigation\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 app:headerLayout="@layout/drawer\_header"  
 app:menu="@menu/menu\_drawer"** />  
</**androidx.drawerlayout.widget.DrawerLayout**>

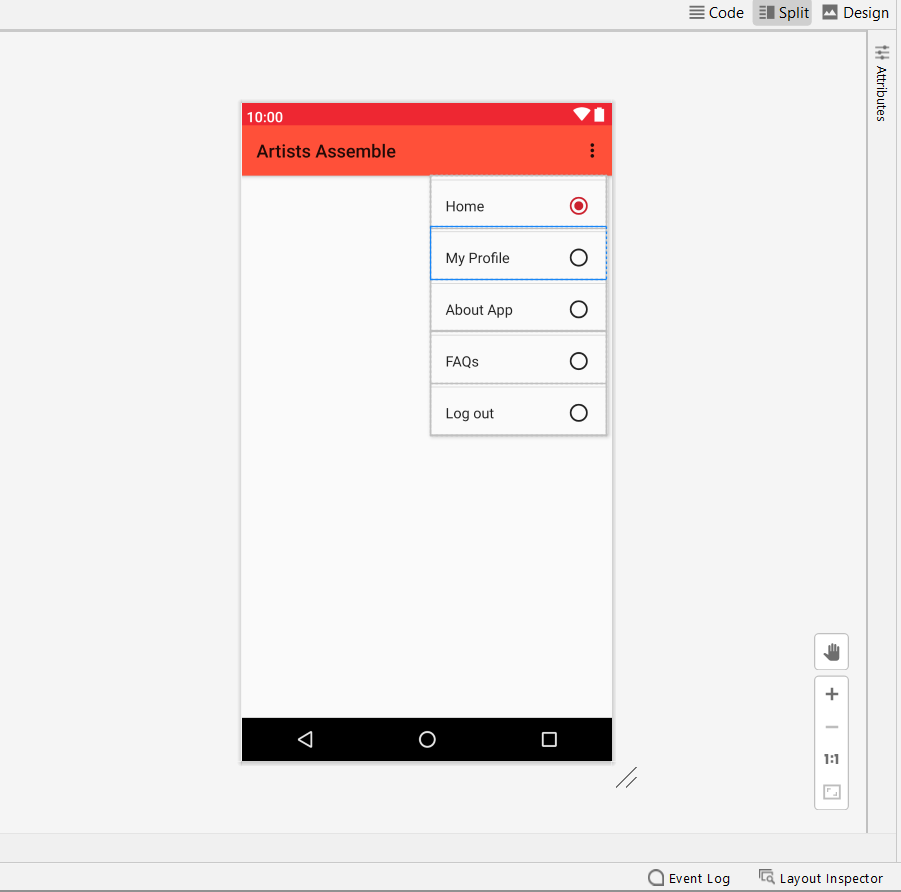
**Output:** 

**f. Menu Drawer**

Menu Drawer is to navigate from one fragment to another fragment

**XML Code for Menu Drawer:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**menu xmlns:android="http://schemas.android.com/apk/res/android"**>  
  
 <**group android:checkableBehavior="single"**>  
  
 <**item  
 android:id="@+id/home"  
 android:checked="true"  
 android:icon="@drawable/action\_home"  
 android:title="@string/home"** />  
  
 <**item  
 android:id="@+id/myProfile"  
 android:icon="@drawable/action\_person"  
 android:title="@string/my\_profile"** />  
  
 <**item  
 android:id="@+id/about"  
 android:icon="@drawable/action\_about"  
 android:title="@string/aboutapp"** />  
  
  
 <**item  
 android:id="@+id/faqs"  
 android:icon="@drawable/action\_faq"  
 android:title="@string/faqs"** />  
  
 <**item  
 android:id="@+id/logout"  
 android:icon="@drawable/action\_logout"  
 android:title="@string/logout"** />  
 </**group**>  
  
</**menu**>

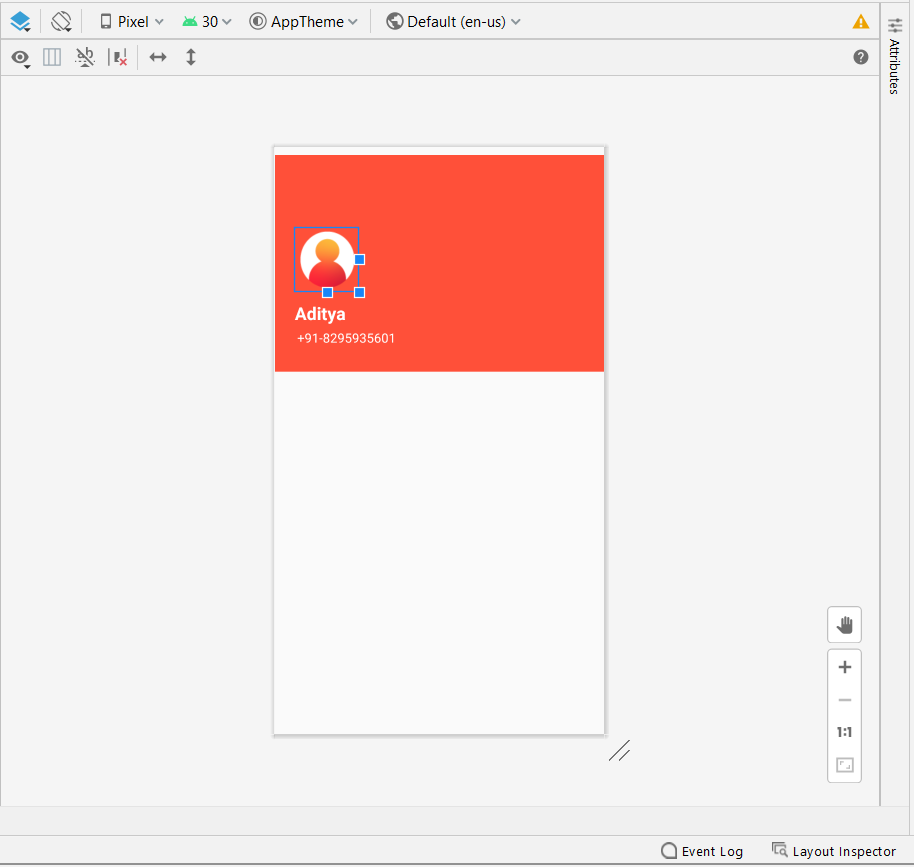
**Output:** 

**g. Drawer Header**

Drawer Header is the portion that will display on the top of the drawer menu

**XML Code for Drawer Header:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="270dip"  
 android:layout\_marginTop="10dip"  
 android:background="@color/colorPrimary"  
 android:orientation="vertical"  
 android:padding="10dip"  
 android:theme="@style/ThemeOverlay.AppCompat.Dark"**>  
  
 <**ImageView  
 android:id="@+id/imgDrawerImage"  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:layout\_marginLeft="15dip"  
 android:layout\_marginTop="80dip"  
 android:src="@drawable/profile\_icon"** />  
  
 <**TextView  
 android:id="@+id/txtDrawerText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/txtPhone"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:layout\_marginLeft="15dip"  
 android:layout\_marginTop="12dip"  
 android:layout\_marginBottom="5dip"  
 android:clickable="true"  
 android:text="@string/name"  
 android:textAllCaps="false"  
 android:textColor="@android:color/white"  
 android:textSize="22sp"  
 android:textStyle="bold"** />  
  
 <**TextView  
 android:id="@+id/txtDrawerSecondaryText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:layout\_marginLeft="18dip"  
 android:text="@string/dummy\_phone"  
 android:textAllCaps="false"  
 android:textColor="@android:color/white"  
 android:textSize="16sp"** />  
</**LinearLayout**>

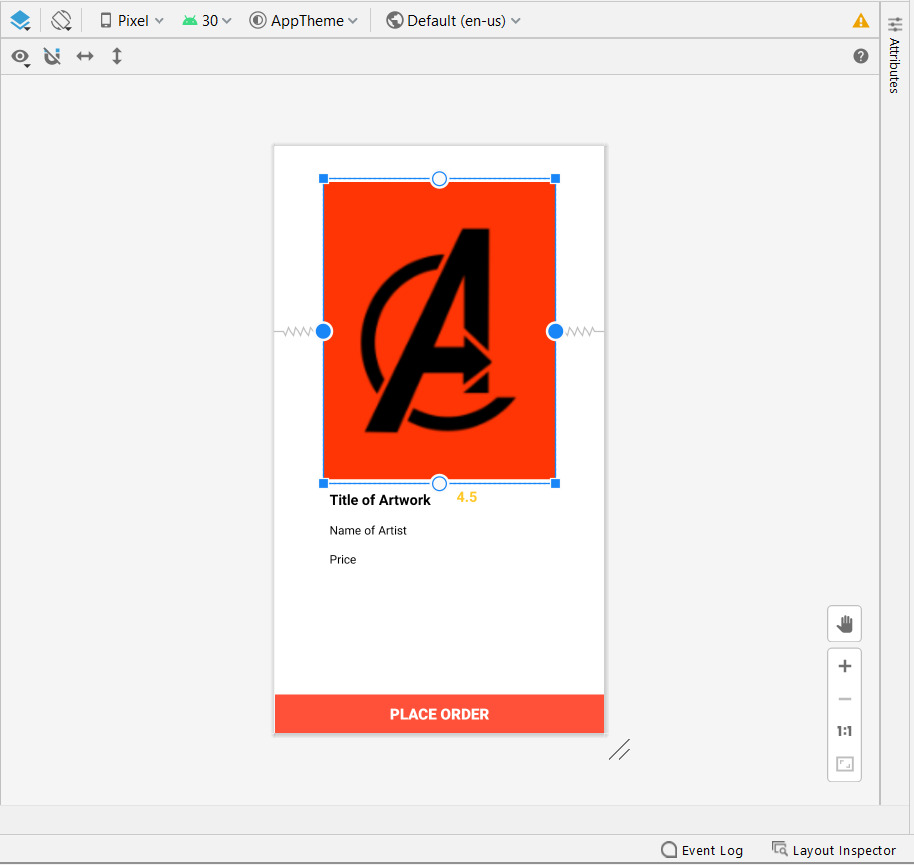
**Output:** 

**h. Order Activity**

This is the activity from where the user will place the order for the artwork

**XML Code for Order Activity:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#fff"  
 tools:context=".activity.OrderActivity"**>  
  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**ImageView  
 android:id="@+id/imgArtworkThumbnail"  
 android:layout\_width="290dp"  
 android:layout\_height="380dp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="40dp"  
 android:padding="5dp"  
 android:scaleType="centerCrop"  
 android:src="@mipmap/icon"** />  
  
 <**TextView  
 android:id="@+id/txtArtworkName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/imgArtworkThumbnail"  
 android:layout\_marginLeft="60dp"  
 android:padding="8dp"  
 android:text="@string/artwork\_name"  
 android:textColor="#000"  
 android:textSize="18sp"  
 android:textStyle="bold"** />  
  
 <**TextView  
 android:id="@+id/txtArtistName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/txtArtworkName"  
 android:layout\_marginLeft="60dp"  
 android:padding="8dp"  
 android:text="@string/artist\_name"  
 android:textColor="#000"  
 android:textSize="15sp"** />  
  
 <**TextView  
 android:id="@+id/txtCost"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/txtArtistName"  
 android:layout\_marginLeft="60dp"  
 android:padding="8dp"  
 android:text="@string/price"  
 android:textColor="#000"  
 android:textSize="15sp"** />  
  
 <**TextView  
 android:id="@+id/txtRating"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/imgArtworkThumbnail"  
 android:layout\_marginLeft="20dp"  
 android:layout\_toRightOf="@id/txtArtworkName"  
 android:padding="4dp"  
 android:text="4.5"  
 android:textColor="#ffc828"  
 android:textSize="18sp"  
 android:textStyle="bold"** />  
  
 <**Button  
 android:id="@+id/btnPlace"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:background="@color/colorPrimary"  
 android:text="Place Order"  
 android:textColor="#ffff"  
 android:textSize="19sp"  
 android:textStyle="bold"** />  
  
 </**RelativeLayout**>  
  
  
</**FrameLayout**>

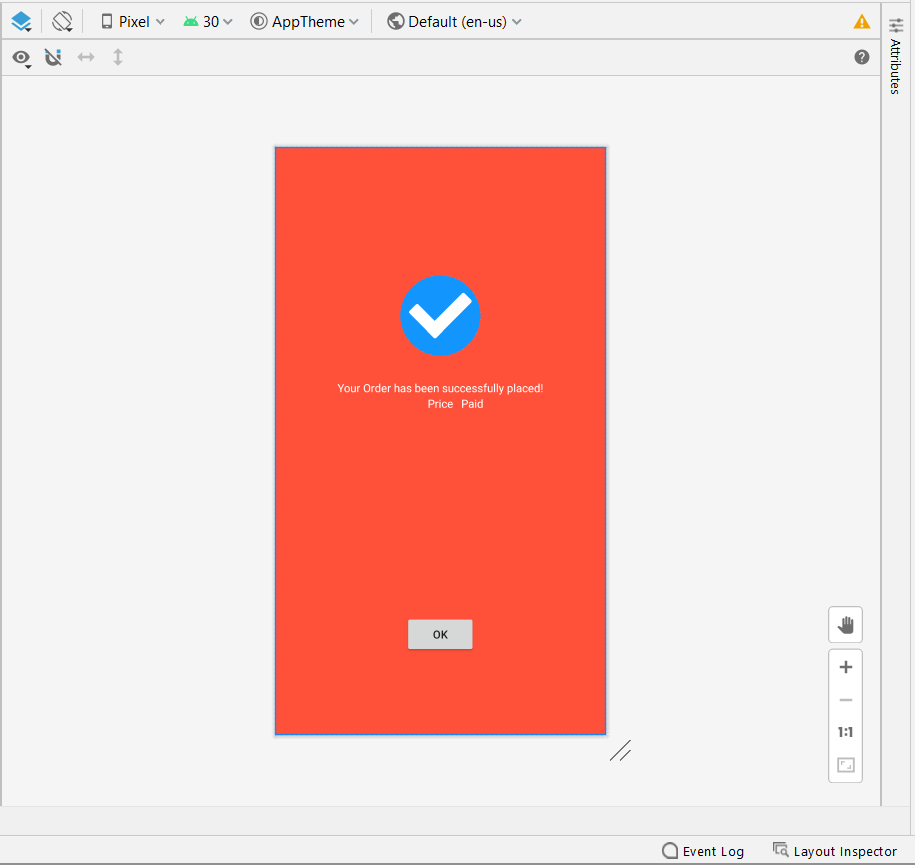
**Output:** 

**i. Success Activity**

This is the activity which will display the success message after an order is placed

**XML Code for Success Activity:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/colorPrimary"  
 tools:context=".activity.SuccessActivity"**>  
  
 <**ImageView  
 android:id="@+id/imgSuccess"  
 android:layout\_width="120dp"  
 android:layout\_height="120dp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="150dp"  
 android:padding="10dp"  
 android:src="@drawable/check"** />  
  
 <**TextView  
 android:id="@+id/txtsuccess"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/imgSuccess"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="20dp"  
 android:text="@string/SuccessText"  
 android:textColor="#ffff"** />  
  
 <**TextView  
 android:id="@+id/txtCost"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/txtsuccess"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginRight="10dp"  
 android:text="@string/price"  
 android:textColor="#ffff"** />  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/txtsuccess"  
 android:layout\_centerHorizontal="true"  
 android:layout\_toRightOf="@+id/txtCost"  
 android:text="Paid"  
 android:textColor="#ffffff"** />  
  
 <**Button  
 android:id="@+id/btnSuccess"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginBottom="100dp"  
 android:text="Ok"** />  
</**RelativeLayout**>

**Output:** 

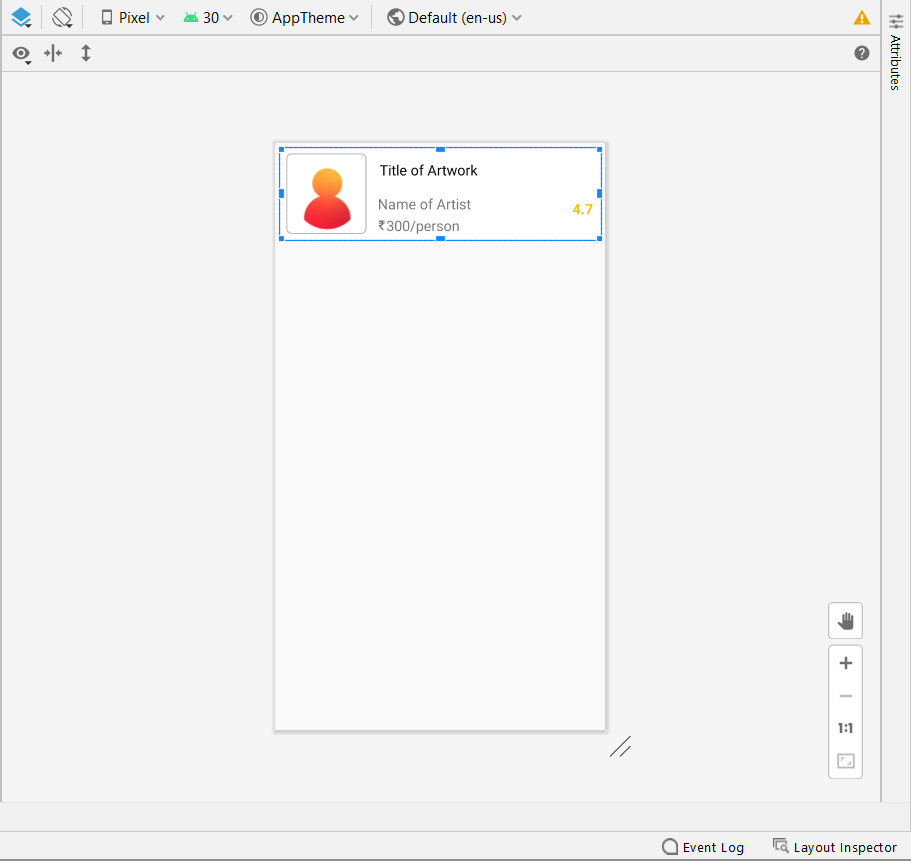
**3.2.2 Adapter**

**Recycler Dashboard Single Row**

This will provide the template according to which all the artworks in the application will be displayed to the user.

**XML Code for Recycler Dashboard Single Row:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:id="@+id/cardDraw"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="5dp"  
 app:cardCornerRadius="6dp"**>  
  
 <**LinearLayout  
 android:id="@+id/llContent"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
 <**ImageView  
 android:id="@+id/imgArtworkThumbnail"  
 android:layout\_width="100dp"  
 android:layout\_height="100dp"  
 android:layout\_gravity="center\_vertical"  
 android:layout\_margin="8dp"  
 android:background="@drawable/res\_image\_background"  
 android:scaleType="centerCrop"  
 android:src="@drawable/profile\_icon"** />  
  
 <**RelativeLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_marginLeft="4dp"  
 android:layout\_marginTop="12dp"**>  
  
 <**RelativeLayout  
 android:id="@+id/rlOne"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="12dp"**>  
  
 <**TextView  
 android:id="@+id/txtArtworkName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="4dp"  
 android:text="@string/artwork\_name"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"** />  
  
  
 </**RelativeLayout**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/rlOne"  
 android:layout\_alignParentBottom="true"**>  
  
 <**TextView  
 android:id="@+id/txtArtistName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginRight="8dp"  
 android:padding="2dp"  
 android:text="@string/artist\_name"  
 android:textAppearance="?android:attr/textAppearanceMedium"** />  
  
 <**TextView  
 android:id="@+id/txtCost"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/txtArtistName"  
 android:layout\_marginRight="8dp"  
 android:drawableLeft="@drawable/rupee\_indian"  
 android:padding="1dp"  
 android:text="300/person"  
 android:textAppearance="?android:attr/textAppearanceMedium"** />  
  
  
 <**TextView  
 android:id="@+id/txtRating"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentRight="true"  
 android:layout\_marginRight="2dp"  
 android:padding="8dp"  
 android:text="4.7"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="#ffc107"  
 android:textStyle="bold"** />  
 </**RelativeLayout**>  
 </**RelativeLayout**>  
 </**LinearLayout**>  
</**androidx.cardview.widget.CardView**>

**Output:** 

**3.2.3 Fragments**

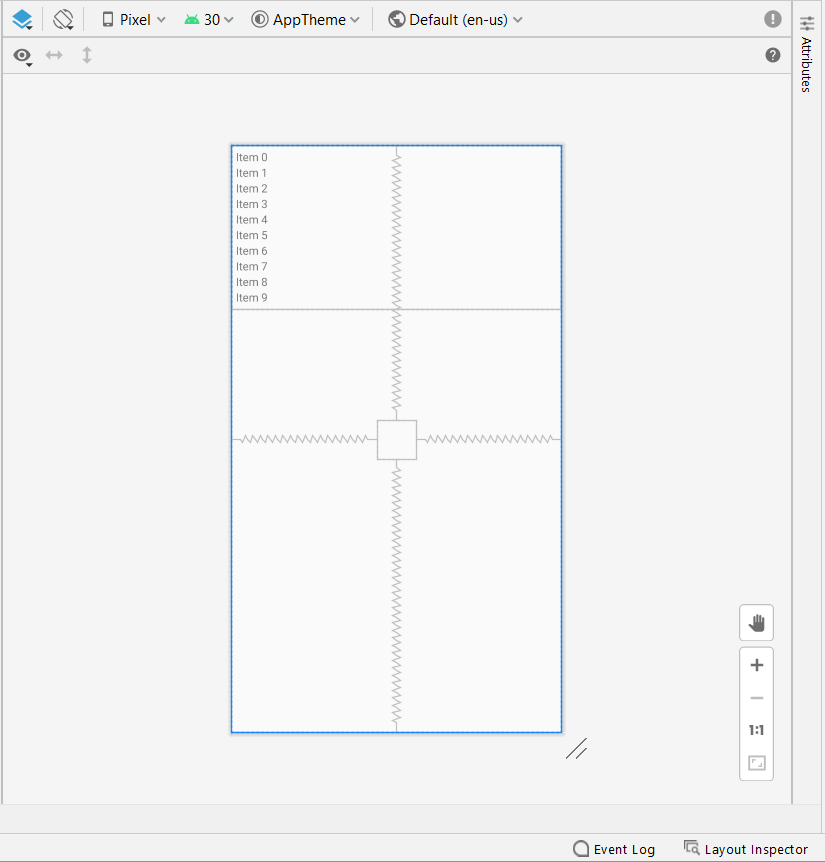
**a. Home Fragment**

In this fragment, we will design the interface to adjust the recycler View holding the views, i.e. the artwork data.

**XML Code for Home Fragment:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".fragment.HomeFragment"**>  
  
  
 <**RelativeLayout  
 android:id="@+id/rlFavorites"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:visibility="visible"**>  
  
 <**androidx.recyclerview.widget.RecyclerView  
 android:id="@+id/recyclerhome"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="5dp"** />  
  
 </**RelativeLayout**>  
  
 <**RelativeLayout  
 android:id="@+id/rlLoading"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:visibility="invisible"**>  
  
 <**ProgressBar  
 android:id="@+id/progressBar"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerInParent="true"** />  
 </**RelativeLayout**>  
</**FrameLayout**>

**Output:**

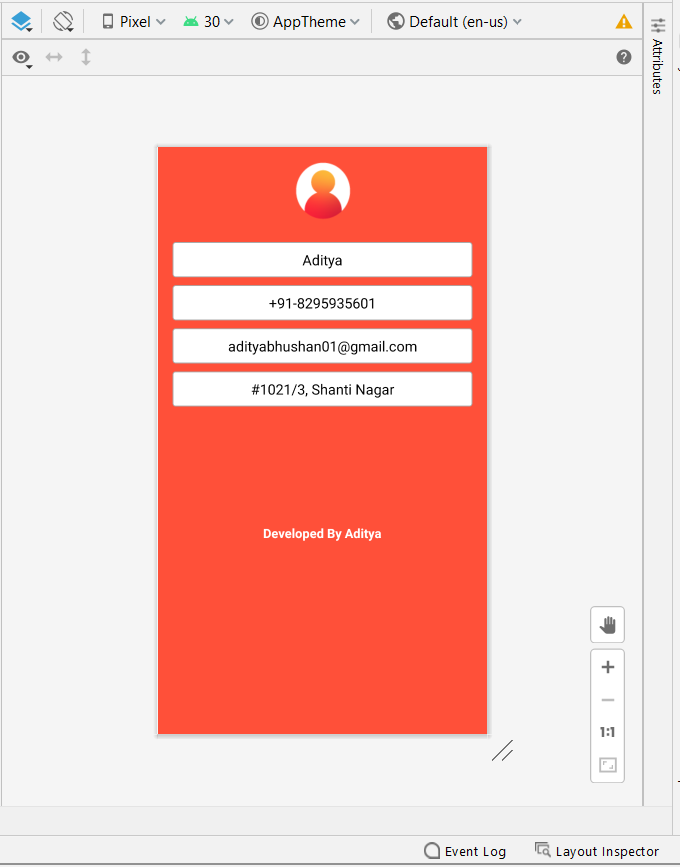


**b. Profile Fragment**

This fragment will display the user data, the information they filled while registering to the application.

**XML Code for Profile Fragment:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/colorPrimary"  
 tools:context=".fragment.ProfileFragment"**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:padding="4dp"**>  
  
 <**ImageView  
 android:id="@+id/imgUserImage"  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 android:layout\_centerHorizontal="true"  
 android:scaleType="fitXY"  
 android:src="@drawable/profile\_icon"** />  
  
 <**LinearLayout  
 android:id="@+id/llProfile"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/imgUserImage"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="vertical"  
 android:padding="4dp"**>  
  
  
 <**TextView  
 android:id="@+id/txtUserName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/text\_boundary\_background"  
 android:padding="10dp"  
 android:text="@string/name"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"** />  
  
  
 <**TextView  
 android:id="@+id/txtPhone"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:background="@drawable/text\_boundary\_background"  
 android:padding="10dp"  
 android:text="@string/dummy\_phone"  
 android:textAlignment="center"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"** />  
  
 <**TextView  
 android:id="@+id/txtEmail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:background="@drawable/text\_boundary\_background"  
 android:padding="10dp"  
 android:text="@string/email"  
 android:textAlignment="center"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"** />  
  
 <**TextView  
 android:id="@+id/txtAddress"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:background="@drawable/text\_boundary\_background"  
 android:gravity="center"  
 android:padding="10dp"  
 android:text="@string/address"  
 android:textAlignment="center"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"** />  
  
 </**LinearLayout**>  
  
 </**RelativeLayout**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center\_horizontal"  
 android:layout\_marginTop="450dp"  
 android:padding="20dp"  
 android:text="Developed By Aditya"  
 android:textColor="#ffff"  
 android:textSize="16sp"  
 android:textStyle="bold"** />  
</**FrameLayout**>

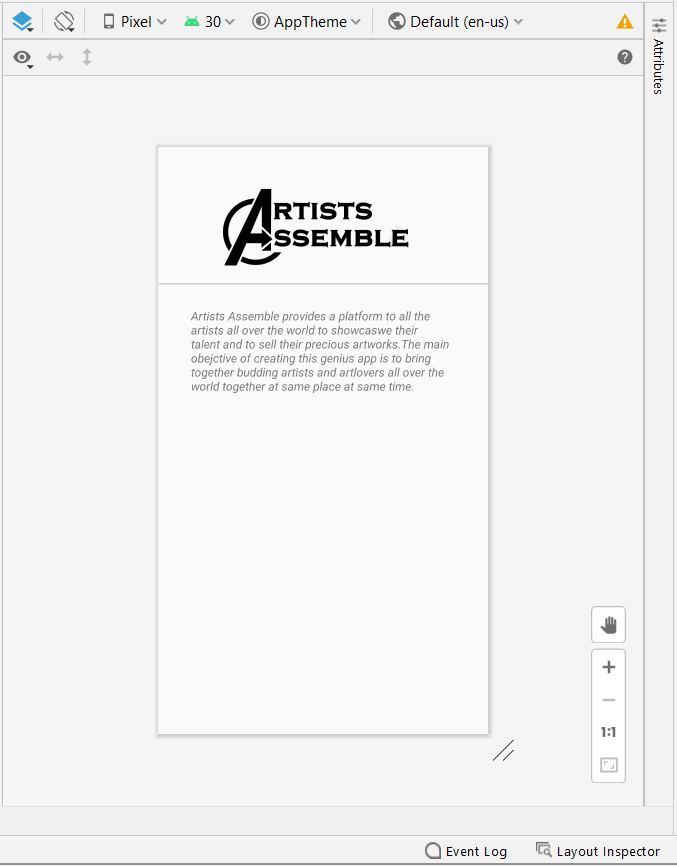
**Output:** 

**c. About Fragment**

This fragment will display the basic information about the application.

**XML Code for About Fragment:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**RelativeLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"**>  
  
 <**ImageView  
 android:id="@+id/imgLogo"  
 android:layout\_width="240dp"  
 android:layout\_height="120dp"  
 android:layout\_marginLeft="80dp"  
 android:layout\_marginTop="40dp"  
 android:src="@drawable/avengers"** />  
  
 <**View  
 android:layout\_width="match\_parent"  
 android:layout\_height="1dp"  
 android:layout\_below="@+id/imgLogo"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginBottom="5dp"  
 android:background="@android:color/darker\_gray"** />  
  
 <**TextView  
 android:id="@+id/txtAbout"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/imgLogo"  
 android:padding="40dp"  
 android:text="@string/about"  
 android:textSize="15sp"  
 android:textStyle="italic"** />  
  
 </**RelativeLayout**>  
</**FrameLayout**>

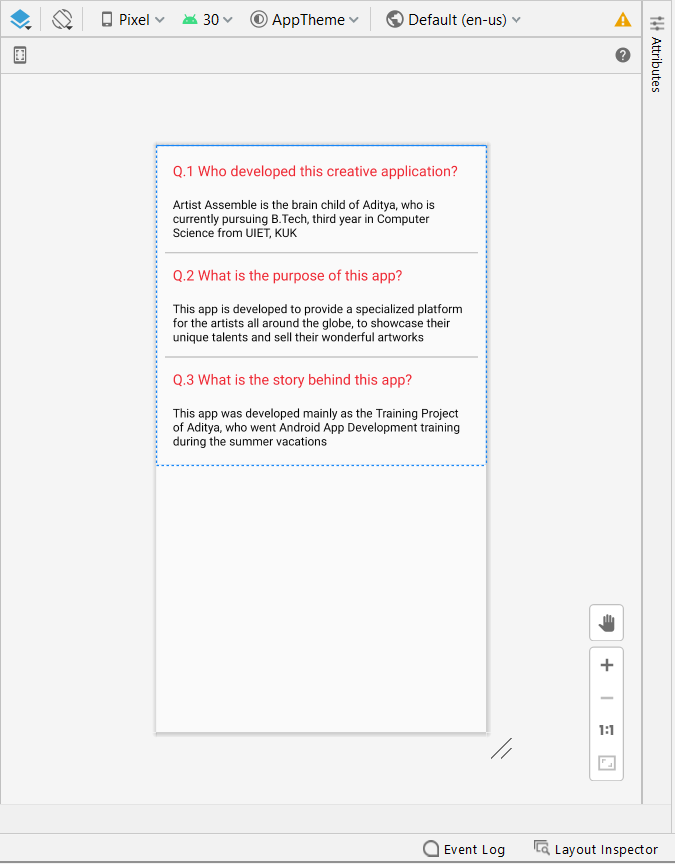
**Output:** 

**d. FAQ Fragment**

This fragment will display the frequently asked questions for the users.

**XML Code for FAQ Fragment:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".fragment.FAQFragment"**>  
  
 <**ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:padding="10dp"**>  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:padding="10dp"  
 android:text="Q.1 Who developed this creative application?"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@color/colorPrimaryDark"** />  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:padding="10dp"  
 android:text="@string/faq\_answer\_one"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"  
 android:textSize="15sp"** />  
  
 <**View  
 android:layout\_width="match\_parent"  
 android:layout\_height="1dp"  
 android:layout\_marginTop="5dp"  
 android:layout\_marginBottom="5dp"  
 android:background="@android:color/darker\_gray"** />  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:padding="10dp"  
 android:text="Q.2 What is the purpose of this app?"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@color/colorPrimaryDark"** />  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:padding="10dp"  
 android:text="@string/faq\_answer\_two"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"  
 android:textSize="15sp"** />  
  
 <**View  
 android:layout\_width="match\_parent"  
 android:layout\_height="1dp"  
 android:layout\_marginTop="5dp"  
 android:layout\_marginBottom="5dp"  
 android:background="@android:color/darker\_gray"** />  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:padding="10dp"  
 android:text="Q.3 What is the story behind this app?"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@color/colorPrimaryDark"** />  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:padding="10dp"  
 android:text="@string/faq\_answer\_three"  
 android:textAppearance="?android:attr/textAppearanceMedium"  
 android:textColor="@android:color/black"  
 android:textSize="15sp"** />  
 </**LinearLayout**>  
  
 </**ScrollView**>  
  
</**FrameLayout**>

**Output:** 

**3.3 Back End**

**Android Manifest.xml**

Here we will declare all the activities that we used in the app and the information about the activity that will be launched at the time when the app is launched.

**Code:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.aditya.artistassemble"**>  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/icon"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/icon\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 <**activity android:name=".activity.SuccessActivity"**/>  
 <**activity android:name=".activity.MainActivity"**/>  
 <**activity android:name=".activity.LoginActivity"**/>  
 <**activity android:name=".activity.ForgotPasswordActivity"** />  
 <**activity android:name=".activity.RegisterActivity"** />  
 <**activity android:name=".activity.OrderActivity"** />  
 <**activity android:name=".activity.SplashActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

**Values**

Here we define some basic information related to our application

**Colors.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**resources**>  
 <**color name="colorPrimary"**>#ff5039</**color**>  
 <**color name="colorPrimaryDark"**>#ee2732</**color**>  
 <**color name="colorPrimaryLight"**>#ff5039</**color**>  
 <**color name="colorAccent"**>#cb202d</**color**>  
</**resources**>

**Dimens.xml**

<**resources**>  
 <**dimen name="fab\_margin"**>16dp</**dimen**>  
</**resources**>

**ic\_launcher\_background.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**resources**>  
 <**color name="ic\_launcher\_background"**>#FF3505</**color**>  
</**resources**>

**icon\_background.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**resources**>  
 <**color name="icon\_background"**>#FF3505</**color**>  
</**resources**>

**Strings.xml**

<**resources**>  
 <**string name="app\_name"**>Artists Assemble</**string**>  
 <**string name="home"**>Home</**string**>  
 <**string name="my\_profile"**>My Profile</**string**>  
 <**string name="favorites"**>Favorites</**string**>  
 <**string name="faqs"**>FAQs</**string**>  
 <**string name="order"**>Order History</**string**>  
 <**string name="logout"**>Log out</**string**>  
 <**string name="open\_drawer"**>Open Drawer</**string**>  
 <**string name="close\_drawer"**>Close Drawer</**string**>  
 <**string name="hello\_blank\_fragment"**>Hello blank fragment</**string**>  
 <**string name="artwork\_name"**>Title of Artwork</**string**>  
 <**string name="artist\_name"**>Name of Artist</**string**>  
 <**string name="price"**>Price</**string**>  
 <**string name="no\_favorites"**>You do not have any favorites</**string**>  
 <**string name="faq\_answer\_one"**>Artist Assemble is the brain child of Aditya, who is currently pursuing B.Tech, third year in Computer Science from UIET, KUK</**string**>  
 <**string name="faq\_answer\_two"**>This app is developed to provide a specialized platform for the artists all around the globe, to showcase their unique talents and sell their wonderful artworks</**string**>  
 <**string name="name"**>Aditya</**string**>  
 <**string name="dummy\_phone"**>+91-8295935601</**string**>  
 <**string name="email"**>adityabhushan01@gmail.com</**string**>  
 <**string name="address"**>#1021/3, Shanti Nagar</**string**>  
 <**string name="faq\_answer\_three"**>This app was developed mainly as the Training Project of Aditya, who went Android App Development training during the summer vacations</**string**>  
 <**string name="about"**>Artists Assemble provides a platform to all the artists all over the world to showcaswe their talent and to sell their precious artworks.The main obejctive of creating this genius app is to bring together budding artists and artlovers all over the world together at same place at same time.</**string**>  
 <**string name="aboutapp"**>About App</**string**>  
 <**string name="title\_activity\_success"**>Success</**string**>  
 <**string name="SuccessText"**>Your Order has been successfully placed!</**string**>  
 <**string name="mobile\_number"**>Mobile Number (10 digits)</**string**>  
 <**string name="password"**>Password</**string**>  
 <**string name="login"**>Login</**string**>  
 <**string name="enter\_name"**>Name (Min. 3 characters)</**string**>  
 <**string name="choose\_password"**>Password (Min. 4 characters)</**string**>  
 <**string name="confirm\_password"**>Confirm Password</**string**>  
 <**string name="registration"**>Register</**string**>  
 <**string name="phone"**>Phone</**string**>  
 <**string name="register\_yourself"**><**u**>Don\'t have an account? Sign up now</**u**></**string**>  
 <**string name="forgot\_password"**><**u**>Forgot Password?</**u**></**string**>  
 <**string name="enter\_mobile\_forgot\_password"**>Enter your registered mobile number and email below:</**string**>  
 <**string name="emailAddress"**>Email Address</**string**>  
 <**string name="addressHome"**>Address</**string**>  
 <**string name="preference\_file\_name"**>Artists Assemble preference file</**string**>  
 <**string name="next"**>Next</**string**>  
  
  
</**resources**>

**Styles.xml**

<**resources**>  
  
 *<!-- Base application theme. -->* <**style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar"**>  
 *<!-- Customize your theme here. -->* <**item name="colorPrimary"**>@color/colorPrimary</**item**>  
 <**item name="colorPrimaryDark"**>@color/colorPrimaryDark</**item**>  
 <**item name="colorAccent"**>@color/colorAccent</**item**>  
 </**style**>  
  
 <**style name="AppTheme.NoActionBar"**>  
 <**item name="windowActionBar"**>false</**item**>  
 <**item name="windowNoTitle"**>true</**item**>  
 </**style**>  
  
 <**style name="AppTheme.AppBarOverlay" parent="ThemeOverlay.AppCompat.Dark.ActionBar"** />  
  
 <**style name="AppTheme.PopupOverlay" parent="ThemeOverlay.AppCompat.Light"** />  
  
</**resources**>

**Activities**

**Splash Activity**

Source Code:

**package** com.aditya.artistassemble.activity  
  
**import** android.content.Intent  
**import** androidx.appcompat.app.AppCompatActivity  
**import** android.os.Bundle  
**import** android.os.Handler  
**import** com.aditya.artistassemble.R  
  
**class** SplashActivity : AppCompatActivity() {  
  
  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_splash*)  
 Handler().postDelayed(**{** startActivity(Intent(**this**@SplashActivity, LoginActivity::**class**.*java*))  
 finish()  
 **}**, 950)  
 }  
}

**Login Activity**

Source Code:

**package** com.aditya.artistassemble.activity  
  
**import** android.content.Context  
**import** android.content.Intent  
**import** android.content.SharedPreferences  
**import** androidx.appcompat.app.AppCompatActivity  
**import** android.os.Bundle  
**import** android.widget.Button  
**import** android.widget.EditText  
**import** android.widget.TextView  
**import** android.widget.Toast  
**import** com.aditya.artistassemble.R  
**import** com.aditya.artistassemble.activity.MainActivity  
  
**class** LoginActivity : AppCompatActivity() {  
  
 */\*Declaring the different variables used for this activity\*/* **private lateinit var registerYourself**: TextView  
 **private lateinit var login**: Button  
 **private lateinit var etMobileNumber**: EditText  
 **private lateinit var etPassword**: EditText  
 **private lateinit var txtForgotPassword**: TextView  
 **lateinit var sharedPreferences**: SharedPreferences  
  
 */\*Default password and phone number for login\*/* **val validMobileNumber** = **"8295935601"  
 val validPassword** = **"1234"  
  
  
 override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
  
 setContentView(R.layout.*activity\_login*)  
  
 *title* = **"Log In"  
  
 sharedPreferences** =  
 getSharedPreferences(getString(R.string.*preference\_file\_name*), Context.*MODE\_PRIVATE*)  
 **val** isLoggedIn = **sharedPreferences**.getBoolean(**"isLoggedIn"**, **false**)  
 **if** (isLoggedIn) {  
 **val** intent = Intent(**this**@LoginActivity, MainActivity::**class**.*java*)  
 startActivity(intent)  
 finish()  
 }  
  
 */\*Initialising the views with the ones defined in the XML\*/* **etMobileNumber** = findViewById(R.id.*etMobileNumber*)  
 **etPassword** = findViewById(R.id.*etPassword*)  
 **txtForgotPassword** = findViewById(R.id.*txtForgotPassword*)  
 **registerYourself** = findViewById(R.id.*txtRegisterYourself*)  
 **login** = findViewById(R.id.*btnLogin*)  
  
 */\*Handling the clicks using the setOnClickListener method\*/* **txtForgotPassword**.setOnClickListener **{** startActivity(Intent(**this**@LoginActivity, ForgotPasswordActivity::**class**.*java*))  
 **}  
 registerYourself**.setOnClickListener **{** startActivity(Intent(**this**@LoginActivity, RegisterActivity::**class**.*java*))  
 **}  
  
  
 login**.setOnClickListener **{** */\*Checking login credentials\*/* **val** mobileNumber = **etMobileNumber**.*text*.toString()  
 **val** password = **etPassword**.*text*.toString()  
  
 */\*Declaring the intent which sets up the route for the navigation of the activity\*/* **val** intent = Intent(**this**@LoginActivity, MainActivity::**class**.*java*)  
 **if** ((mobileNumber == **validMobileNumber**)) {  
 **if** (password == **validPassword**) {  
 startActivity(intent)  
 savePreferences()  
 } **else** {  
 Toast.makeText(**this**@LoginActivity, **"Incorrect Password"**, Toast.*LENGTH\_SHORT*)  
 .show()  
 }  
 } **else** {  
 Toast.makeText(**this**@LoginActivity, **"Incorrect Credentials"**, Toast.*LENGTH\_SHORT*)  
 .show()  
 }  
  
 **}** }  
  
 **override fun** onPause() {  
 **super**.onPause()  
 finish()  
 }  
  
 **fun** savePreferences() {  
 **sharedPreferences**.edit().putBoolean(**"isLoggedIn"**, **true**).apply()  
 }  
}

**Forgot Password Activity**

Source Code:

**package** com.aditya.artistassemble.activity  
  
**import** android.content.Intent  
**import** androidx.appcompat.app.AppCompatActivity  
**import** android.os.Bundle  
**import** android.widget.Button  
**import** android.widget.EditText  
**import** com.aditya.artistassemble.R  
  
**class** ForgotPasswordActivity : AppCompatActivity() {  
  
 */\*Declaring the different variables used for this activity\*/* **lateinit var etForgotMobile**: EditText  
 **lateinit var etForgotEmail**: EditText  
 **lateinit var btnForgotNext**: Button  
  
  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
  
 setContentView(R.layout.*activity\_forgot\_password*)  
  
 *supportActionBar*?.*title* = **"Forgot Password"  
  
 etForgotMobile** = findViewById(R.id.*etForgotMobile*)  
 **etForgotEmail** = findViewById(R.id.*etForgotEmail*)  
 **btnForgotNext** = findViewById(R.id.*btnForgotNext*)  
  
 **btnForgotNext**.setOnClickListener **{** */\*Declaring the intent which sets up the route for the navigation of the activity\*/* **val** intent = Intent(**this**@ForgotPasswordActivity, MainActivity::**class**.*java*)  
  
 */\*Declaring the bundle object which will carry the data\*/* **val** bundle = Bundle()  
  
 */\*Setting a value data which is activity specific. This will be used to identify from where the data was sent\*/* bundle.putString(**"data"**, **"forgot"**)  
  
 */\*Putting the values in Bundle\*/* bundle.putString(**"mobile"**, **etForgotMobile**.*text*.toString())  
 bundle.putString(**"email"**, **etForgotEmail**.*text*.toString())  
  
 */\*Putting the Bundle to be shipped with the intent\*/* intent.putExtra(**"details"**, bundle)  
  
 */\*Starting the new activity by sending the intent in the startActivity method\*/* startActivity(intent)  
 **}** }  
}

**Register Activity**

Source Code:

**package** com.aditya.artistassemble.activity  
  
**import** android.content.Intent  
**import** android.os.Bundle  
**import** android.widget.Button  
**import** android.widget.EditText  
**import** android.widget.RelativeLayout  
**import** androidx.appcompat.app.AppCompatActivity  
**import** androidx.appcompat.widget.Toolbar  
**import** com.aditya.artistassemble.R  
  
  
**class** RegisterActivity : AppCompatActivity() {  
  
  
 **lateinit var btnRegister**: Button  
 **lateinit var etName**: EditText  
 **lateinit var etPhoneNumber**: EditText  
 **lateinit var etPassword**: EditText  
 **lateinit var etEmail**: EditText  
 **lateinit var etAddress**: EditText  
 **lateinit var etConfirmPassword**: EditText  
 **lateinit var rlRegister**: RelativeLayout  
  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_register*)  
  
  
  
 *supportActionBar*?.*title* = **"Register Yourself"  
  
  
 rlRegister** = findViewById(R.id.*rlRegister*)  
 **etName** = findViewById(R.id.*etName*)  
 **etPhoneNumber** = findViewById(R.id.*etPhoneNumber*)  
 **etEmail** = findViewById(R.id.*etEmail*)  
 **etPassword** = findViewById(R.id.*etPassword*)  
 **etConfirmPassword** = findViewById(R.id.*etConfirmPassword*)  
 **etAddress** = findViewById(R.id.*etAddress*)  
 **btnRegister** = findViewById(R.id.*btnRegister*)  
  
 **btnRegister**.setOnClickListener **{  
 val** intent = Intent(**this**@RegisterActivity, MainActivity::**class**.*java*)  
 **val** bundle = Bundle()  
 bundle.putString(**"data"**, **"register"**)  
 bundle.putString(**"name"**, **etName**.*text*.toString())  
 bundle.putString(**"mobile"**, **etPhoneNumber**.*text*.toString())  
 bundle.putString(**"password"**, **etPassword**.*text*.toString())  
 bundle.putString(**"address"**, **etAddress**.*text*.toString())  
 intent.putExtra(**"details"**, bundle)  
 startActivity(intent)  
 **}** }  
  
 **override fun** onSupportNavigateUp(): Boolean {  
 onBackPressed()  
 **return true** }  
}

**Main Activity**

Source Code:

**package** com.aditya.artistassemble.activity  
  
**import** android.content.Context  
**import** android.content.Intent  
**import** android.content.SharedPreferences  
**import** androidx.appcompat.app.AppCompatActivity  
**import** android.os.Bundle  
**import** android.widget.FrameLayout  
**import** androidx.appcompat.widget.Toolbar  
**import** androidx.appcompat.app.ActionBarDrawerToggle  
**import** androidx.appcompat.app.AlertDialog  
**import** androidx.coordinatorlayout.widget.CoordinatorLayout  
**import** androidx.core.app.ActivityCompat  
**import** androidx.core.view.GravityCompat  
**import** androidx.drawerlayout.widget.DrawerLayout  
**import** com.aditya.artistassemble.\*  
**import** com.aditya.artistassemble.fragment.FAQFragment  
**import** com.aditya.artistassemble.fragment.AboutFragment  
**import** com.aditya.artistassemble.fragment.HomeFragment  
**import** com.aditya.artistassemble.fragment.ProfileFragment  
**import** com.google.android.material.navigation.NavigationView  
  
**class** MainActivity : AppCompatActivity() {  
 **lateinit var** drawerLayout: DrawerLayout  
 **lateinit var** coordinatorLayout: CoordinatorLayout  
 **lateinit var** frameLayout: FrameLayout  
 **lateinit var** navigationView: NavigationView  
 **lateinit var** sharedPreferences: SharedPreferences  
 **var** previousMenuItem: android.view.MenuItem? = **null  
  
 override fun** onCreate(savedInstanceState: Bundle?) {  
  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.activity\_home)  
  
 sharedPreferences =  
 getSharedPreferences(getString(R.string.preference\_file\_name), Context.MODE\_PRIVATE)  
  
  
  
  
 drawerLayout = findViewById(R.id.drawer\_layout)  
 coordinatorLayout = findViewById(R.id.coordinatorLayout)  
 frameLayout = findViewById(R.id.frame)  
 navigationView = findViewById(R.id.navigation\_view)  
 displayHome()  
  
 **val** actionBarDrawerToggle = ActionBarDrawerToggle(  
 **this**@MainActivity,  
 drawerLayout,  
 R.string.open\_drawer,  
 R.string.close\_drawer  
 )  
 drawerLayout.addDrawerListener(actionBarDrawerToggle)  
 actionBarDrawerToggle.syncState()  
 navigationView.setNavigationItemSelectedListener **{  
  
 if** (previousMenuItem != **null**) {  
 previousMenuItem?.isChecked = **false** }  
 it.isCheckable = **true** it.isChecked = **true** previousMenuItem = it  
  
 **when** (it.itemId) {  
 R.id.home -> {  
 displayHome()  
 supportActionBar?.title = **"Gallery"** drawerLayout.closeDrawers()  
 }  
  
 R.id.myProfile -> {  
 supportFragmentManager.beginTransaction().replace(R.id.frame, ProfileFragment())  
 .commit()  
 supportActionBar?.title = **"My Profile"** drawerLayout.closeDrawers()  
 }  
 R.id.about -> {  
 supportFragmentManager.beginTransaction().replace(R.id.frame, AboutFragment())  
 .commit()  
 supportActionBar?.title = **"Favorites"** drawerLayout.closeDrawers()  
 }  
 R.id.faqs -> {  
 supportFragmentManager.beginTransaction().replace(R.id.frame, FAQFragment())  
 .commit()  
 supportActionBar?.title = **"FAQs"** drawerLayout.closeDrawers()  
 }  
  
 R.id.logout -> {  
  
 */\*Creating a confirmation dialog\*/* **val** builder = AlertDialog.Builder(**this**@MainActivity)  
 builder.setTitle(**"Confirmation"**)  
 .setMessage(**"Are you sure you want to Log Out?"**)  
 .setPositiveButton(**"Yes"**) **{** \_, \_ **->** startActivity(Intent(**this**@MainActivity, LoginActivity::**class**.java))  
 sharedPreferences.edit().clear().apply()  
 finish()  
 **}** .setNegativeButton(**"No"**) **{** \_, \_ **->** displayHome()  
 **}** .create()  
 .show()  
  
 }  
  
  
 }  
 **return**@setNavigationItemSelectedListener **true  
 }** }  
  
 **private fun** displayHome() {  
 **val** fragment = HomeFragment()  
 **val** transaction = supportFragmentManager.beginTransaction()  
 transaction.replace(R.id.frame, fragment)  
 transaction.commit()  
 supportActionBar?.title = **"Gallery"** navigationView.setCheckedItem(R.id.home)  
 }  
  
 **override fun** onBackPressed() {  
 **val** frag = supportFragmentManager.findFragmentById(R.id.frame)  
 **when** (frag) {  
 **!is** HomeFragment -> displayHome()  
 **else** -> **super**.onBackPressed()  
 }  
 }  
  
  
 **override fun** onOptionsItemSelected(item: android.view.MenuItem): Boolean {  
 **val** id = item.itemId  
 **if** (id == android.R.id.home) {  
 drawerLayout.openDrawer(GravityCompat.START)  
 }  
  
 **return super**.onOptionsItemSelected(item)  
 }  
  
  
}

**Order Activity**

Source Code:

**package** com.aditya.artistassemble.activity  
  
**import** android.content.Context  
**import** android.content.Intent  
**import** android.os.Bundle  
**import** android.view.View  
**import** android.widget.Button  
**import** android.widget.ImageView  
**import** android.widget.TextView  
**import** android.widget.Toast  
**import** androidx.appcompat.app.AppCompatActivity  
**import** androidx.core.content.ContextCompat.startActivity  
**import** com.aditya.artistassemble.R  
**import** kotlinx.android.synthetic.main.activity\_home.\*  
**import** kotlinx.android.synthetic.main.activity\_order.\*  
  
**class** OrderActivity : AppCompatActivity() {  
  
  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 *intent* = getIntent()  
 setContentView(R.layout.*activity\_order*)  
 **var** tempBundle = *intent*.getExtras()  
 **if** (tempBundle != **null**) {  
 txtArtworkName.*text* = tempBundle.getString(**"artTitle"**)  
 txtArtistName.*text* = tempBundle.getString(**"artistName"**)  
 txtRating.*text* = tempBundle.getString(**"artRating"**)  
 txtCost.*text* = tempBundle.getString(**"artCost"**)  
 imgArtworkThumbnail.setImageResource(tempBundle.getInt(**"artImage"**))  
  
 btnPlace.setOnClickListener **{  
 val** join = Intent(**this**@OrderActivity, SuccessActivity::**class**.*java*)  
 join.putExtra(**"artCost"**, tempBundle.getString(**"artCost"**));  
 startActivity(join)  
 **}** }  
 }  
  
 **override fun** onPause() {  
 **super**.onPause()  
 finish()  
 }  
}

**Success Activity**

Source Code:

**package** com.aditya.artistassemble.activity  
  
**import** android.content.Intent  
**import** android.os.Bundle  
**import** androidx.appcompat.app.AppCompatActivity  
**import** com.aditya.artistassemble.R  
**import** kotlinx.android.synthetic.main.activity\_order.\*  
**import** kotlinx.android.synthetic.main.activity\_success.\*  
**import** kotlinx.android.synthetic.main.activity\_success.txtCost  
  
**class** SuccessActivity : AppCompatActivity() {  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_success*)  
 *intent* = getIntent()  
 txtCost.*text* = *intent*.getStringExtra(**"artCost"**)  
  
 btnSuccess.setOnClickListener **{  
 val** join = Intent(**this**@SuccessActivity, MainActivity::**class**.*java*)  
 startActivity(join)  
 **}** }  
  
 **override fun** onPause() {  
 **super**.onPause()  
 finish()  
 }  
  
}

**Adapter**

**Dashboard Recycler Adapter**

Source Code:

**package** com.aditya.artistassemble.adapter  
  
**import** android.content.Context  
**import** android.content.Intent  
**import** android.os.Build  
**import** android.os.Bundle  
**import** android.view.LayoutInflater  
**import** android.view.View  
**import** android.view.ViewGroup  
**import** android.widget.ImageView  
**import** android.widget.LinearLayout  
**import** android.widget.TextView  
**import** androidx.cardview.widget.CardView  
**import** androidx.recyclerview.widget.RecyclerView  
**import** com.aditya.artistassemble.R  
**import** com.aditya.artistassemble.activity.OrderActivity  
**import** com.aditya.artistassemble.model.Drawing  
**import** kotlinx.android.synthetic.main.activity\_order.\*  
  
**class** DashboardRecyclerAdapter(**val Context**: Context, **val itemList**: ArrayList<Drawing>) :  
 RecyclerView.Adapter<DashboardRecyclerAdapter.DashboardViewHolder>() {  
 **class** DashboardViewHolder(view: View) : RecyclerView.ViewHolder(view) {  
 **val resThumbnail** = view.findViewById(R.id.*imgArtworkThumbnail*) **as** ImageView  
 **val artworkName**: TextView = view.findViewById(R.id.*txtArtworkName*) **as** TextView  
 **val artistName** = view.findViewById(R.id.*txtArtistName*) **as** TextView  
 **val rating** = view.findViewById(R.id.*txtRating*) **as** TextView  
 **val price** = view.findViewById(R.id.*txtCost*) **as** TextView  
 **val llContent**: LinearLayout = view.findViewById(R.id.*llContent*)  
  
  
 }  
  
 **override fun** onCreateViewHolder(parent: ViewGroup, viewType: Int): DashboardViewHolder {  
 **val** view = LayoutInflater.from(parent.*context*)  
 .inflate(R.layout.*recycler\_dashboard\_single\_row*, parent, **false**)  
  
 **return** DashboardViewHolder(view)  
 }  
  
 **override fun** getItemCount(): Int {  
 **return itemList**.**size** }  
  
 **override fun** getItemViewType(position: Int): Int {  
 **return** position  
 }  
  
 **override fun** onBindViewHolder(holder: DashboardViewHolder, position: Int) {  
 **val** drawings = **itemList**.get(position)  
 **if** (Build.VERSION.*SDK\_INT* >= Build.VERSION\_CODES.*LOLLIPOP*) {  
 holder.**resThumbnail**.*clipToOutline* = **true** }  
 holder.**artworkName**.*text* = drawings.**artTitle** holder.**rating**.*text* = drawings.**artRating** holder.**artistName**.*text* = drawings.**artist  
 val** cost = **"${**drawings.**artCost**.toString()**}"** holder.**price**.*text* = cost  
 holder.**resThumbnail**.setImageResource(drawings.**artworkImage**)  
 holder.**llContent**.setOnClickListener **{  
 val** intent = Intent(**Context**, OrderActivity::**class**.*java*)  
 **val** bundle = Bundle()  
 bundle.putString(**"artTitle"**, drawings.**artTitle**.toString())  
 bundle.putString(**"artistName"**, drawings.**artist**.toString())  
 bundle.putString(**"artRating"**, drawings.**artRating**.toString())  
 bundle.putString(**"artCost"**, drawings.**artCost**.toString())  
 bundle.putInt(**"artImage"**, drawings.**artworkImage**)  
 intent.putExtras(bundle)  
 **Context**.startActivity(intent, bundle)  
  
 **}** }  
  
}

**Fragment**

**Home Fragment**

Source Code:

**package** com.aditya.artistassemble.fragment  
  
**import** android.content.Context  
**import** android.os.Bundle  
**import** androidx.fragment.app.Fragment  
**import** android.view.LayoutInflater  
**import** android.view.View  
**import** android.view.ViewGroup  
**import** androidx.recyclerview.widget.DividerItemDecoration  
**import** androidx.recyclerview.widget.LinearLayoutManager  
**import** androidx.recyclerview.widget.RecyclerView  
**import** com.aditya.artistassemble.R  
**import** com.aditya.artistassemble.adapter.DashboardRecyclerAdapter  
**import** com.aditya.artistassemble.model.Drawing  
  
**class** HomeFragment : Fragment() {  
  
 **lateinit var recyclerhome**: RecyclerView  
 **lateinit var layoutManager**: RecyclerView.LayoutManager  
 **lateinit var recyclerAdapter**: DashboardRecyclerAdapter  
 **val artInfoList** = *arrayListOf*(  
 Drawing(1, **"Aditya"**, **"5.0"**, R.drawable.*kill*, **"Rs. 600"**, **"Kill Bill"**),  
 Drawing(2, **"Dr. Ravi Bhushan"**, **"4.9"**, R.drawable.*school*, **"Rs. 700"**, **"Netrahaat Memories"**),  
 Drawing(3, **"Dr. Ravi Bhushan"**, **"4.5"**, R.drawable.*meena*, **"Rs. 500"**, **"Paakiza"**),  
 Drawing(4, **"Tulika"**, **"3.9"**, R.drawable.*pikachu*, **"Rs. 400"**, **"Pikachu Pickles"**),  
 Drawing(5, **"Aditya"**, **"4.9"**, R.drawable.*breaking*, **"Rs. 600"**, **"Breaking Bad"**),  
 Drawing(6, **"Aditya"**, **"4.3"**, R.drawable.*bond*, **"Rs. 500"**, **"From Russia with love"**),  
 Drawing(7, **"Dr. Ravi Bhushan"**,**"4.2"**,R.drawable.*farming*,**"Rs. 500"**,**"Farmers of West Bihar"**),  
 Drawing(8,**"Dr. Ravi Bhushan"**,**"4.0"**,R.drawable.*village*,**"Rs. 500"**,**"In the laps of Nature"**),  
 Drawing(9, **"Tulika"**, **"4.0"**, R.drawable.*mango*, **"Rs. 400"**, **"Mango Love"**),  
 Drawing(10, **"Tulika"**, **"4.9"**, R.drawable.*peacocklady*, **"Rs. 400"**, **"Peacock Lady"**),  
 Drawing(11, **"Aditya"**, **"5.0"**, R.drawable.*harrypotter*, **"Rs. 600"**, **"Harry Potter"**),  
 Drawing(12, **"Aditya"**, **"4.9"**, R.drawable.*scarface*, **"Rs. 700"**, **"Scarface"**),  
 Drawing(13, **"Tulika"**, **"4.5"**, R.drawable.*scooter*, **"Rs. 500"**, **"Shooter Scooter"**),  
 Drawing(14, **"Tulika"**, **"3.9"**, R.drawable.*girl*, **"Rs. 300"**, **"Mad Angles"**),  
 Drawing(15, **"Aditya"**, **"4.5"**, R.drawable.*anakin*, **"Rs. 300"**, **"Anakin"**),  
 Drawing(16, **"Aditya"**, **"5.0"**, R.drawable.*johnwick*, **"Rs. 600"**, **"John Wick"**),  
 Drawing(17, **"Aditya"**, **"4.9"**, R.drawable.*starwars*, **"Rs. 700"**, **"Star Wars"**),  
 Drawing(18, **"Aditya"**, **"4.7"**, R.drawable.*yojimbo*, **"Rs. 600"**, **"Yojimbo"**),  
 Drawing(19, **"Aditya"**, **"4.9"**, R.drawable.*lotr*, **"Rs. 700"**, **"Lord of the Rings"**),  
 Drawing(20, **"Aditya"**, **"3.9"**, R.drawable.*pulp*, **"Rs. 300"**, **"5$ milkshake"**),  
 Drawing(21, **"Aditya"**, **"4.2"**, R.drawable.*hansolo*, **"Rs. 300"**, **"Han Solo"**)  
 )  
  
 **override fun** onCreateView(  
 inflater: LayoutInflater, container: ViewGroup?,  
 savedInstanceState: Bundle?  
 ): View? {  
 **val** view = inflater.inflate(R.layout.*fragment\_home*, container, **false**)  
 **recyclerhome** = view.findViewById(R.id.*recyclerhome*)  
 **layoutManager** = LinearLayoutManager(*activity*)  
 **recyclerAdapter** = DashboardRecyclerAdapter(*activity* **as** Context, **artInfoList**)  
 **recyclerhome**.*adapter* = **recyclerAdapter  
 recyclerhome**.*layoutManager* = **layoutManager  
  
 recyclerhome**.addItemDecoration(  
 DividerItemDecoration(  
 **recyclerhome**.*context*,  
 (**layoutManager as** LinearLayoutManager).*orientation* )  
 )  
 **return** view  
 }  
  
  
}

**About Fragment**

Source Code:

**package** com.aditya.artistassemble.fragment  
  
**import** android.os.Bundle  
**import** androidx.fragment.app.Fragment  
**import** android.view.LayoutInflater  
**import** android.view.View  
**import** android.view.ViewGroup  
**import** com.aditya.artistassemble.R  
  
**class** AboutFragment : Fragment() {  
  
  
 **override fun** onCreateView(  
 inflater: LayoutInflater, container: ViewGroup?,  
 savedInstanceState: Bundle?  
 ): View? {  
 **return** inflater.inflate(R.layout.*fragment\_about*, container, **false**)  
 }  
  
  
}

**Profile Fragment**

Source Code:

**package** com.aditya.artistassemble.fragment  
  
**import** android.os.Bundle  
**import** androidx.fragment.app.Fragment  
**import** android.view.LayoutInflater  
**import** android.view.View  
**import** android.view.ViewGroup  
**import** com.aditya.artistassemble.R  
  
  
**class** ProfileFragment : Fragment() {  
  
 **override fun** onCreateView(  
 inflater: LayoutInflater, container: ViewGroup?,  
 savedInstanceState: Bundle?  
 ): View? {  
 **return** inflater.inflate(R.layout.*fragment\_profile*, container, **false**)  
 }  
  
}

**FAQ Fragment**

Source Code:

**package** com.aditya.artistassemble.fragment  
  
**import** android.os.Bundle  
**import** androidx.fragment.app.Fragment  
**import** android.view.LayoutInflater  
**import** android.view.View  
**import** android.view.ViewGroup  
**import** com.aditya.artistassemble.R  
  
  
**class** FAQFragment : Fragment() {  
  
 **override fun** onCreateView(  
 inflater: LayoutInflater, container: ViewGroup?,  
 savedInstanceState: Bundle?  
 ): View? {  
 **return** inflater.inflate(R.layout.*fragment\_faq*, container, **false**)  
 }  
  
  
}

**Model**

**Drawing.kt**

**package** com.aditya.artistassemble.model  
  
**data class** Drawing(  
 **val artId**: Int,  
 **val artist**: String,  
 **val artRating**: String,  
 **val artworkImage**: Int,  
 **val artCost**: String,  
 **val artTitle**: String  
) {  
  
}

**Chapter. 4**

**Future Scope**

Most of the elements used in this application are hard-coded, which result in excess of code, which can be reduced if we link this application to a live server, where the application can send request to receive the required data and then posts it on the application from where the user can easily access them.

Also, we can link the forgot password activity and register activity to a live server from where we can store the users’ data.

We can also link a net banking platform with the application so that the users can actually pay for the artwork which they ordered.

In the time of high-speed internet and the expanding e-commerce market, a platform where the artists can sell their artworks can be really beneficial.