

Assignment 3 CSE 225

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Sec: KOM52

Roll no. 38

App Name: Topic Analyzer

Video link:

<https://drive.google.com/file/d/1huTsaZRPQU0cwlf2caFK0K6lzGlzivwt/view?usp=sharing>

MainActivity.java:-

```
activity_progress_bar.xml>MainActivity.java
1 package com.ks.one225;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6
7     AdapterViewFlipper mAdapterViewFlipper;
8     GridLayout mGridLayout;
9     int [] IMAGES = {
10         R.drawable.logo_dark,
11         R.drawable.pro0,
12         R.drawable.pro1,
13         R.drawable.pro2,
14         R.drawable.pro3,
15         R.drawable.pro4
16     };
17
18     String [] NAMES = {
19         "Topic Analyzer",
20         "Be Ready to learn",
21         "All units will be covered",
22         "Unit 1 to Unit 6",
23         "Every Topic",
24         "CSE 225 Complete Analyse"
25     };
26
27     @Override
28     protected void onCreate(Bundle savedInstanceState) {
29         super.onCreate(savedInstanceState);
30         setContentView(R.layout.activity_main);
31
32         Toolbar toolbar = new Toolbar(context: MainActivity.this);
33         setSupportActionBar(toolbar);
34
35         mAdapterViewFlipper = findViewById(R.id.adapterViewFlipper);
36         CustomAdapter customAdapter = new CustomAdapter(context: MainActivity.this, IMAGES, NAMES);
37
38         mAdapterViewFlipper.setAdapter(customAdapter);
39         mAdapterViewFlipper.setFlipInterval(2500);
40         mAdapterViewFlipper.setAutoStart(true);
41
42         mGridLayout = findViewById(R.id.mainGrid);
43
44         final Animation animation1 = AnimationUtils.loadAnimation(context: MainActivity.this, R.anim.move),
45         final Animation animation2 = AnimationUtils.loadAnimation(context: MainActivity.this, R.anim.bouncing);
46         mGridLayout.setAnimation(animation1);
47         mAdapterViewFlipper.setAnimation(animation2);
48     }
49
50     static class CustomAdapter extends BaseAdapter{
51         Context context;
52         int[] images;
53         String[] names;
54         LayoutInflater inflater;
55
56         CustomAdapter(Context context, int[] images, String[] names) {
57             this.context = context;
58             this.images = images;
59             this.names = names;
60             inflater = (LayoutInflater.from(context));
61         }
62
63         @Override
64         public int getCount() { return names.length; }
65
66         @Override
67         public Object getItem(int position) { return null; }
68
69         @Override
70         public long getItemId(int position) { return 0; }
71
72         @Override
73         public View getView(int position, View convertView, ViewGroup parent) {
74             View view = convertView;
75             if (view == null) {
76                 view = inflater.inflate(R.layout.item_grid, parent, false);
77             }
78
79             TextView textView = view.findViewById(R.id.textView);
80             ImageView imageView = view.findViewById(R.id.imageView);
81
82             textView.setText(names[position]);
83             imageView.setImageResource(images[position]);
84
85             return view;
86         }
87     }
88 }
```

The image shows two identical screenshots of the Android Studio interface, each displaying the `MainActivity.java` file from a project named "One225".

Project Structure:

- Project: One225
- Module: app
- Java files:
 - activity_progress_bar.xml
 - MainActivity.java
 - MyAppWidget
 - MyAppWidgetConfigureActivity
 - UnitOneCall
 - UnitTwoCall
 - UnitThreeCall
 - UnitFourCall
 - UnitFiveCall
 - UnitSixCall
 - UnitOne
 - UnitTwo
 - UnitThree
 - UnitFour
 - UnitFive
 - UnitSix
 - UnitOneCall
 - UnitTwoCall
 - UnitThreeCall
 - UnitFourCall
 - UnitFiveCall
 - UnitSixCall
- Resources:
 - res
 - anim
 - drawable
 - bg.xml
 - bg2.xml
 - bg_image.png
 - bg_image2.png
 - bttn.xml
 - circle.xml
 - flogo1.png
 - flogo2.png
 - flogo3.png
 - flogo4.png
 - flogo5.png
 - flogo6.png
 - home.xml
 - ic_announcement.xml
 - ic_chatxml
 - ir_chark_hlark_24in.xml

MainActivity.java Code (Both Instances):

```
public View getView(int position, View convertView, ViewGroup parent) {
    convertView = LayoutInflater.inflate(R.layout.adapter_view_ftp, parent, true);
    TextView name = convertView.findViewById(R.id.adapt_text);
    ImageView image = convertView.findViewById(R.id.adapt_image);
    name.setText(names[position]);
    image.setImageResource(images[position]);
    return convertView;
}

public void unitOneCall(View view) {
    startActivity(new Intent(getApplicationContext(), UnitOneActivity.class));
}

public void unitTwoCall(View view) {
    startActivity(new Intent(getApplicationContext(), UnitTwoActivity.class));
}

public void unitThreeCall(View view) {
    startActivity(new Intent(getApplicationContext(), UnitThreeActivity.class));
}

public void unitFourCall(View view) {
    startActivity(new Intent(getApplicationContext(), UnitFourActivity.class));
}

public void unitFiveCall(View view) {
    startActivity(new Intent(getApplicationContext(), UnitFiveActivity.class));
}

public void unitSixCall(View view) {
    startActivity(new Intent(getApplicationContext(), UnitSixActivity.class));
}

@Override
public void onBackPressed() {
    AlertDialog.Builder builder = new AlertDialog.Builder(context);
    builder.setTitle("Close the App?");
    .setMessage("Tap on 'Yes' to Exit form the App.");
    .setIcon(R.drawable.ic_check_black_24dp)
    .setPositiveButton("Yes", (dialog, which) -> { finish(); })
    .setNegativeButton("No", (dialog, which) -> {
        dialog.dismiss();
    });
    AlertDialog alertDialog = builder.create();
    alertDialog.show();
}
```

MainActivity.xml:-

The image shows two identical instances of the `activity_main.xml` layout file within the Android Studio interface. Both instances are displayed in the 'Code' tab of the Layout Editor. The layout consists of several nested views:

- An outer `LinearLayout` with horizontal gravity.
- A `CardView` with a background color of "#F44336".
- An inner `LinearLayout` with vertical orientation and wrap content width.
- An `ImageView` with a source of `@drawable/flogo2`.
- An inner `LinearLayout` with horizontal gravity and wrap content width.
- An `Textview` with text "Unit 2", white color, and a background of `@drawable/bg2`.
- An outer `CardView` with a background color of "#653FFF".
- An inner `LinearLayout` with horizontal gravity and wrap content width.
- An `Imageview` with a source of `@drawable/bg2`.
- An inner `LinearLayout` with horizontal gravity and wrap content width.

The code editor shows numerous line numbers from 97 to 164, indicating the XML structure. The project navigation bar at the top lists files like `s2.jpg`, `xx.png`, and various XML files for activities and fragments. The bottom of the screen includes standard Android Studio toolbars for Event Log, Layout Inspector, and other development tools.

```
<ImageView  
    android:src="@drawable/flogo3"  
    android:layout_gravity="center_horizontal"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"/>  
  
<TextView  
    android:id="@+id/unit3"  
    android:background="@drawable/bg2"  
    android:layout_gravity="center_horizontal"  
    android:textColor="@android:color/white"  
    android:textSize="20sp"  
    android:textStyle="bold"  
    android:gravity="center"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content" />  
  
</LinearLayout>  
</androidx.cardview.widget.CardView>  
<!-- Unit 3 Navigation END -->  
  
<!-- Unit 4 Navigation START -->  
<androidx.cardview.widget.CardView  
    app:cardBackgroundColor="#3D5A7E"  
    android:id="@+id/unit4"  
    android:onClick="unitFourCall"  
    android:layout_width="0dp"  
    android:layout_height="0dp"  
    android:layout_columnWeight="1"  
    android:layout_rowWeight="1"  
    android:layout_marginBottom="16dp"  
    android:layout_marginLeft="16dp"  
    android:layout_marginRight="16dp"  
    app:cardElevation="2dp" />
```



```
<LinearLayout  
    android:layout_gravity="center_horizontal|center_vertical"  
    android:layout_margin="16dp"  
    android:orientation="vertical"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content">  
  
<ImageView  
    android:src="@drawable/flogo4"  
    android:layout_gravity="center_horizontal"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content" />  
  
<TextView  
    android:id="@+id/unit4"  
    android:background="@drawable/bg2"  
    android:gravity="center"  
    android:textColor="@android:color/white"  
    android:textSize="20sp"  
    android:textStyle="bold"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content" />  
  
</LinearLayout>  
</androidx.cardview.widget.CardView>  
<!-- Unit 4 Navigation END -->  
  
<!-- Unit 5 Navigation START -->  
<androidx.cardview.widget.CardView  
    app:cardBackgroundColor="#4CAF50"  
    android:id="@+id/unit5"  
    android:onClick="unitFiveCall"  
    android:layout_width="0dp"  
    android:layout_height="0dp" />
```

The image displays two identical screenshots of the Android Studio interface, showing the XML editor for the file `activity_main.xml`. Both screenshots show the same XML code, but the left one contains numerous red squiggly underlines indicating syntax or semantic errors, while the right one shows the code with all errors resolved.

```
<LinearLayout  
    android:layout_gravity="center_horizontal|center_vertical"  
    android:layout_margin="16dp"  
    android:orientation="vertical"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content">  
  
    <ImageView  
        android:src="@drawable/f1log5"  
        android:layout_gravity="center_horizontal"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content" />  
  
    <TextView  
        android:text="Unit 5"  
        android:background="@drawable/bg2"  
        android:gravity="center"  
        android:textColor="@android:color/white"  
        android:textSize="20sp"  
        android:textStyle="bold"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content" />  
/</LinearLayout>
```

The screenshot shows the Android Studio interface with the code editor open to the file `activity_main.xml`. The code defines a `ScrollView` containing a `LinearLayout` with a `GridLayout` and a `TextView`. The `TextView` has a red circular icon with the number "31.1" next to it, indicating a warning or error. The code is as follows:

```
<ScrollView>
    <LinearLayout
        android:layout_gravity="center_horizontal|center_vertical"
        android:layout_margin="10dp"
        android:orientation="vertical"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">

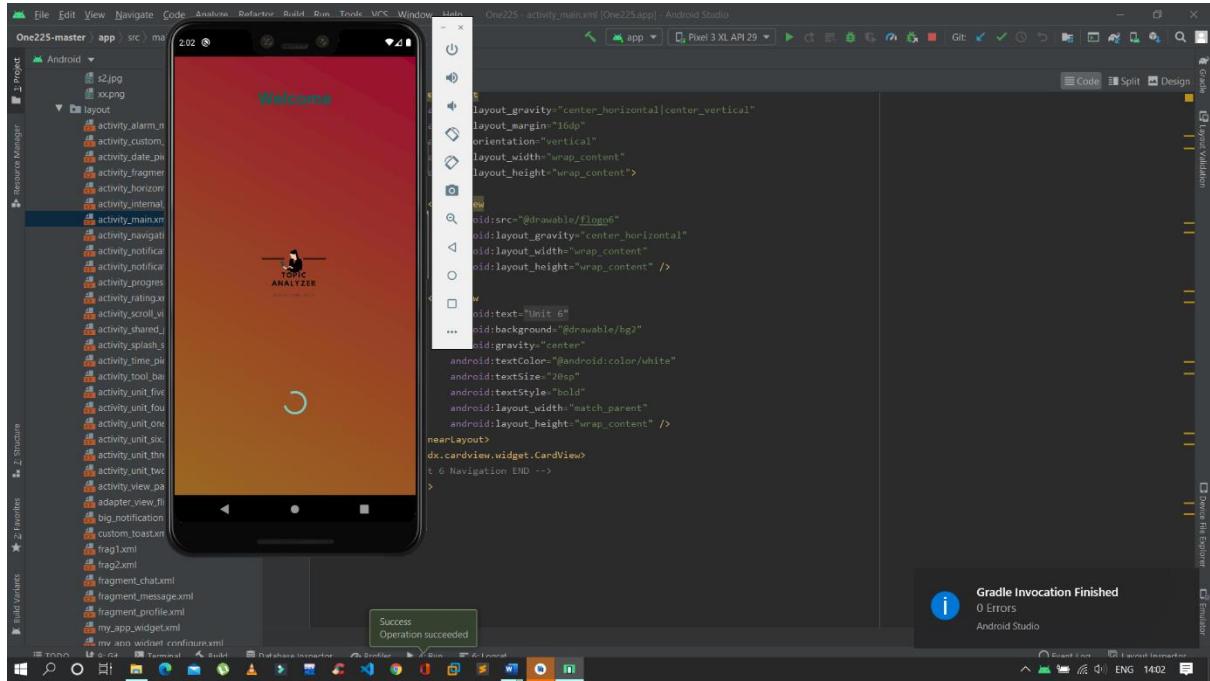
        <Imageview
            android:src="@drawable/logo6"
            android:layout_gravity="center_horizontal"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content" />

        <Textview
            android:text="Unit 6"
            android:background="@drawable/bg2"
            android:gravity="center"
            android:textColor="@android:color/white"
            android:textSize="20sp"
            android:textStyle="bold"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />

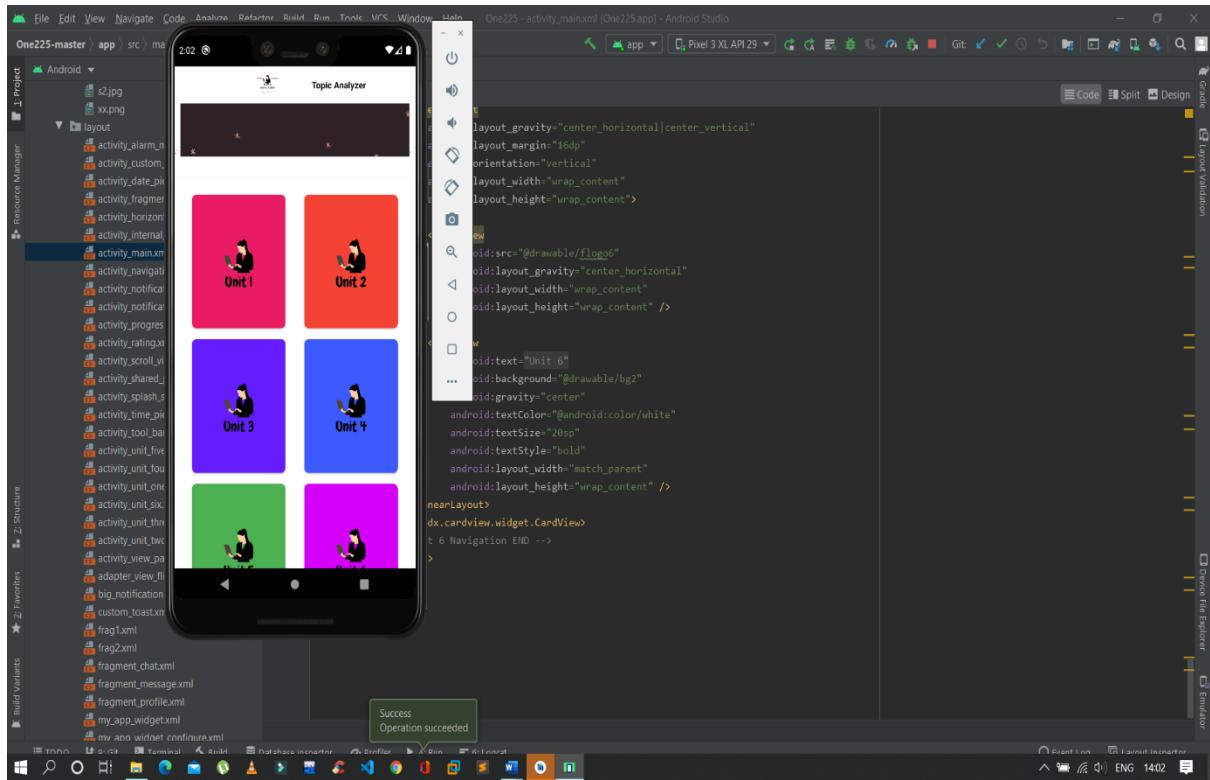
        <LinearLayout>
            <!-- Unit 6 Navigation END -->
        </LinearLayout>
    </LinearLayout>
</ScrollView>
```

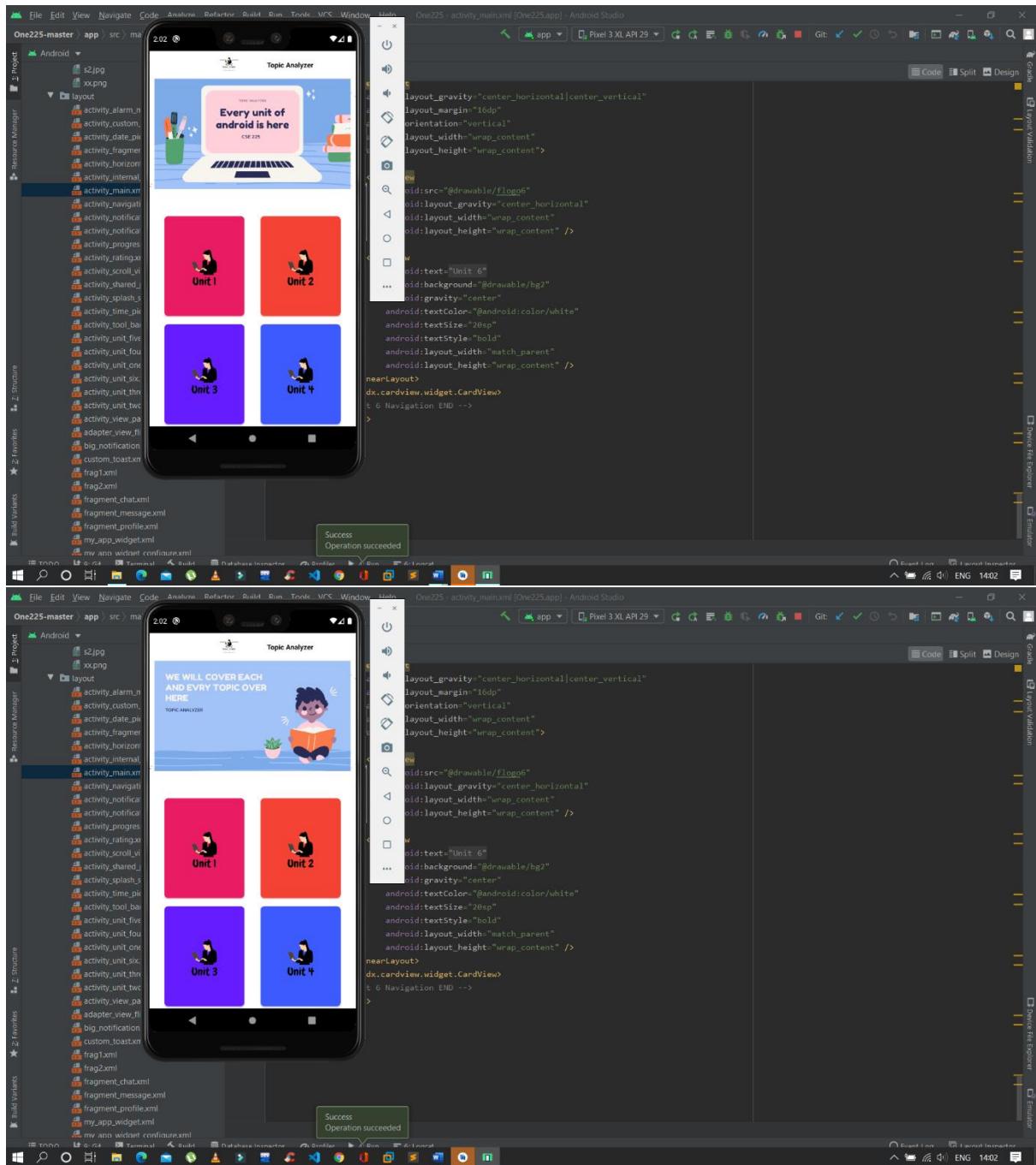
App's Screenshots:-

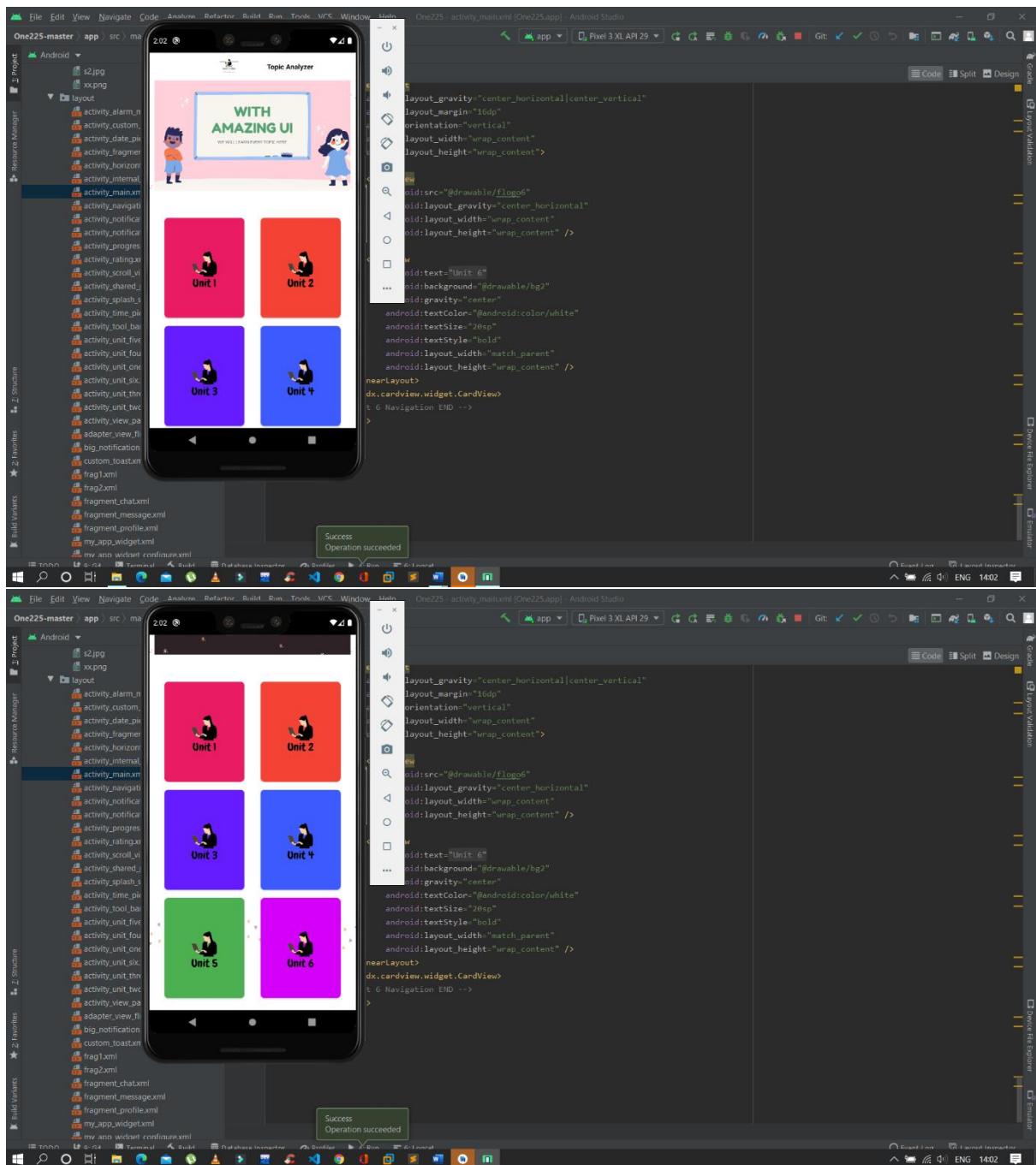
SplashScreen:



HomeScreen:

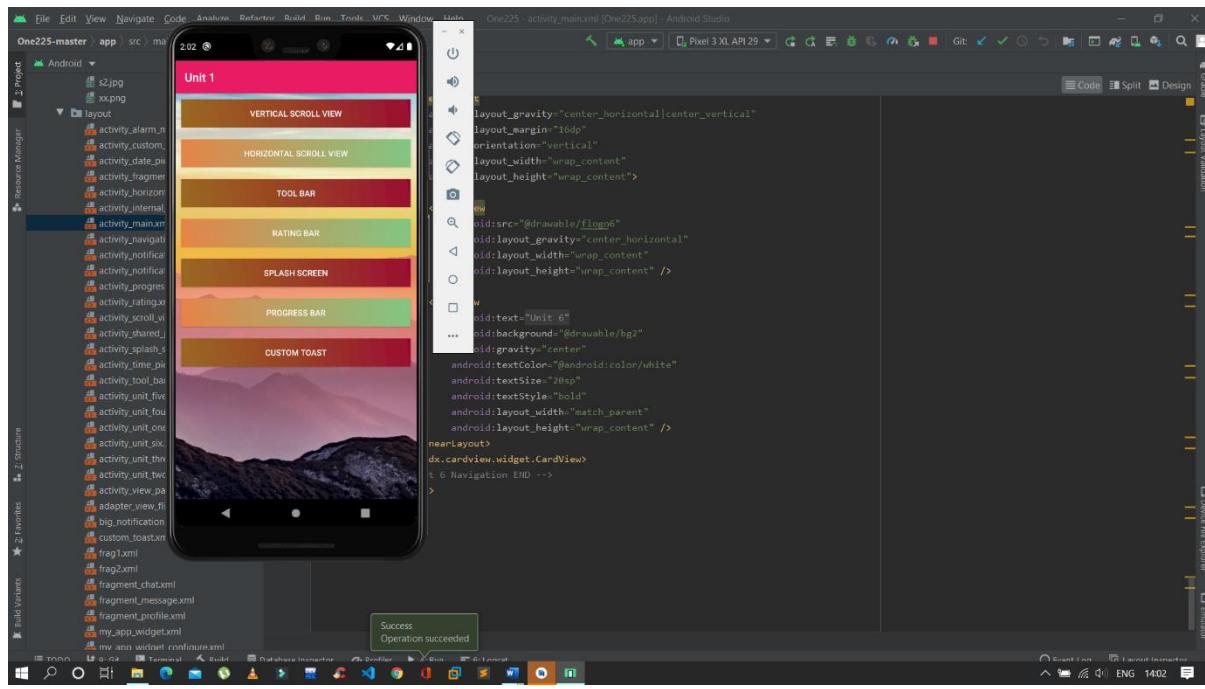




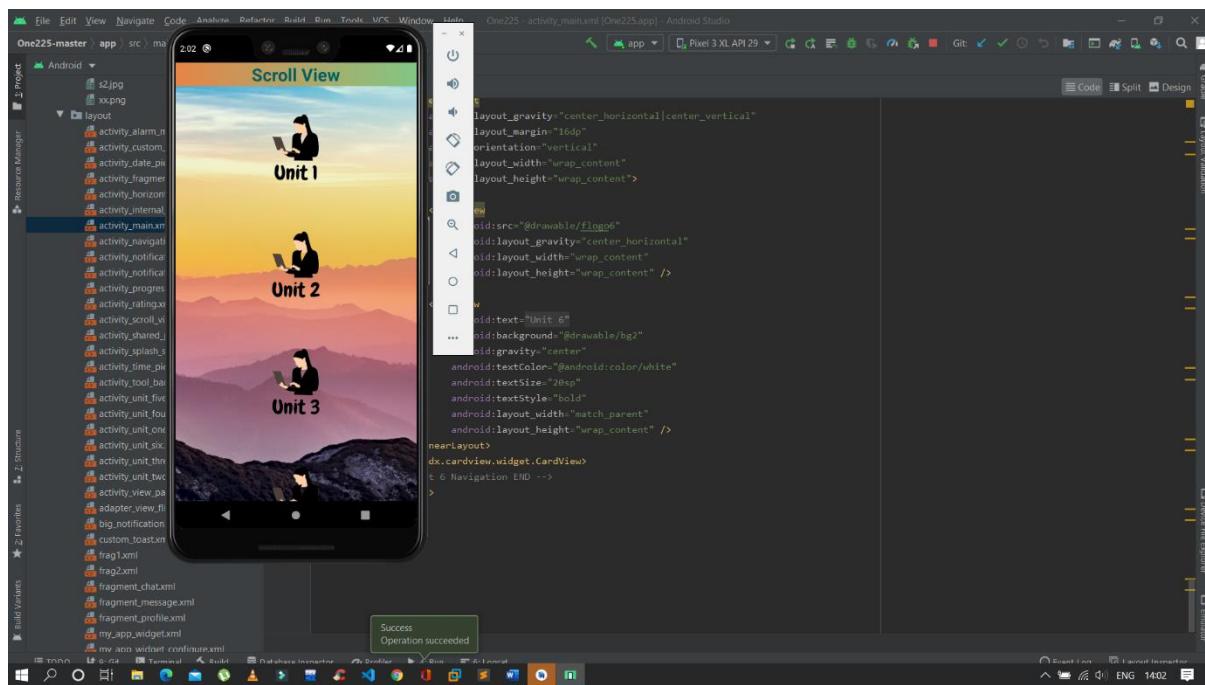


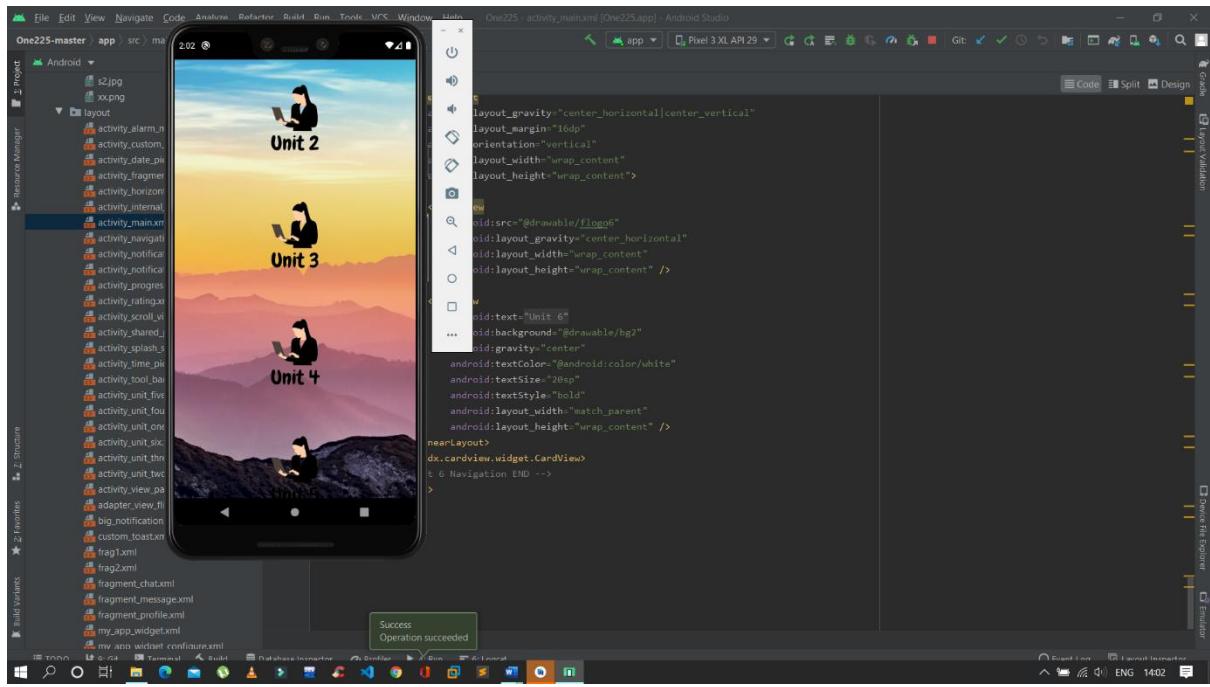
UnitWise Screenshots:-

Unit 1:

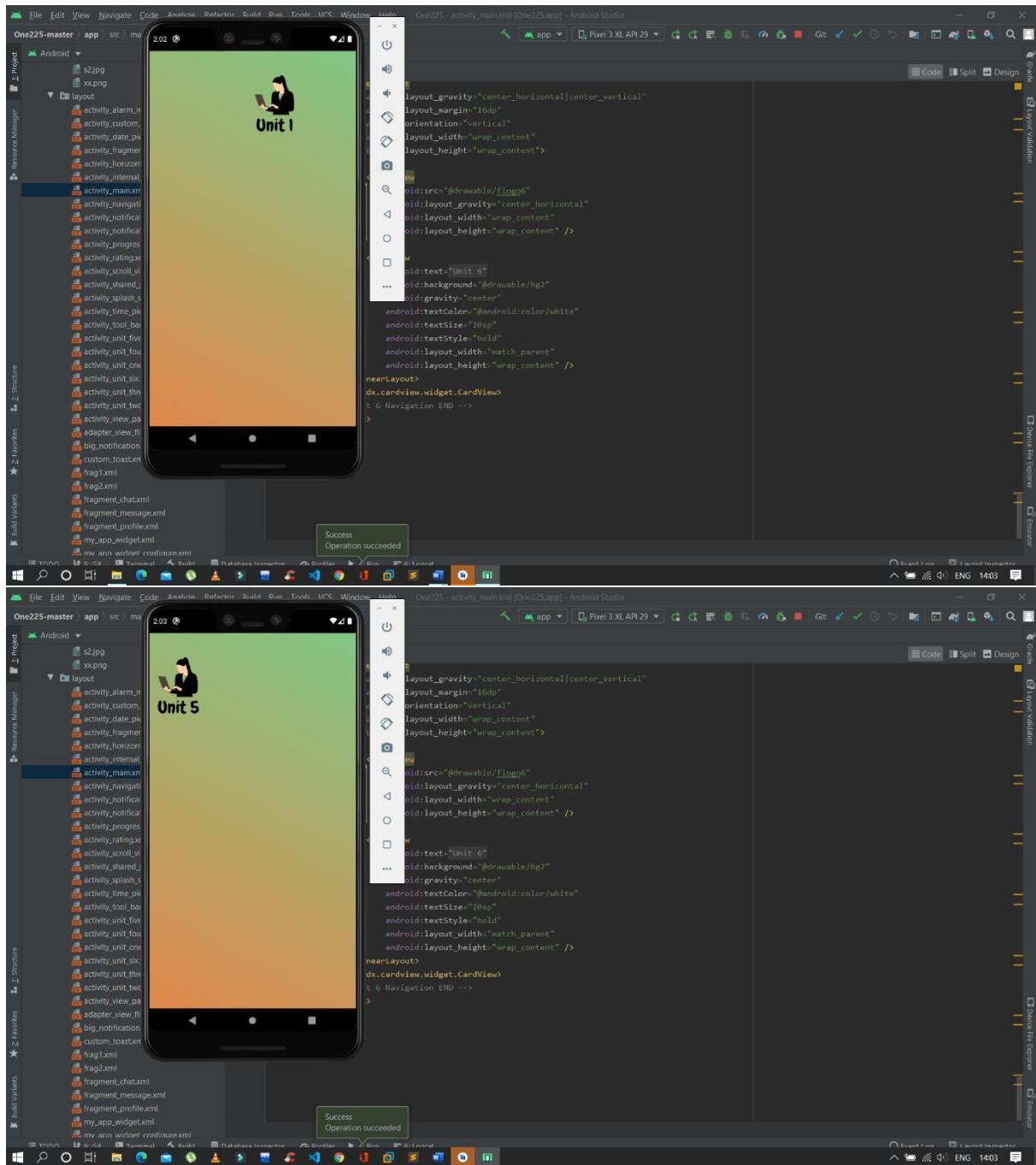


1. Vertical Scroll View

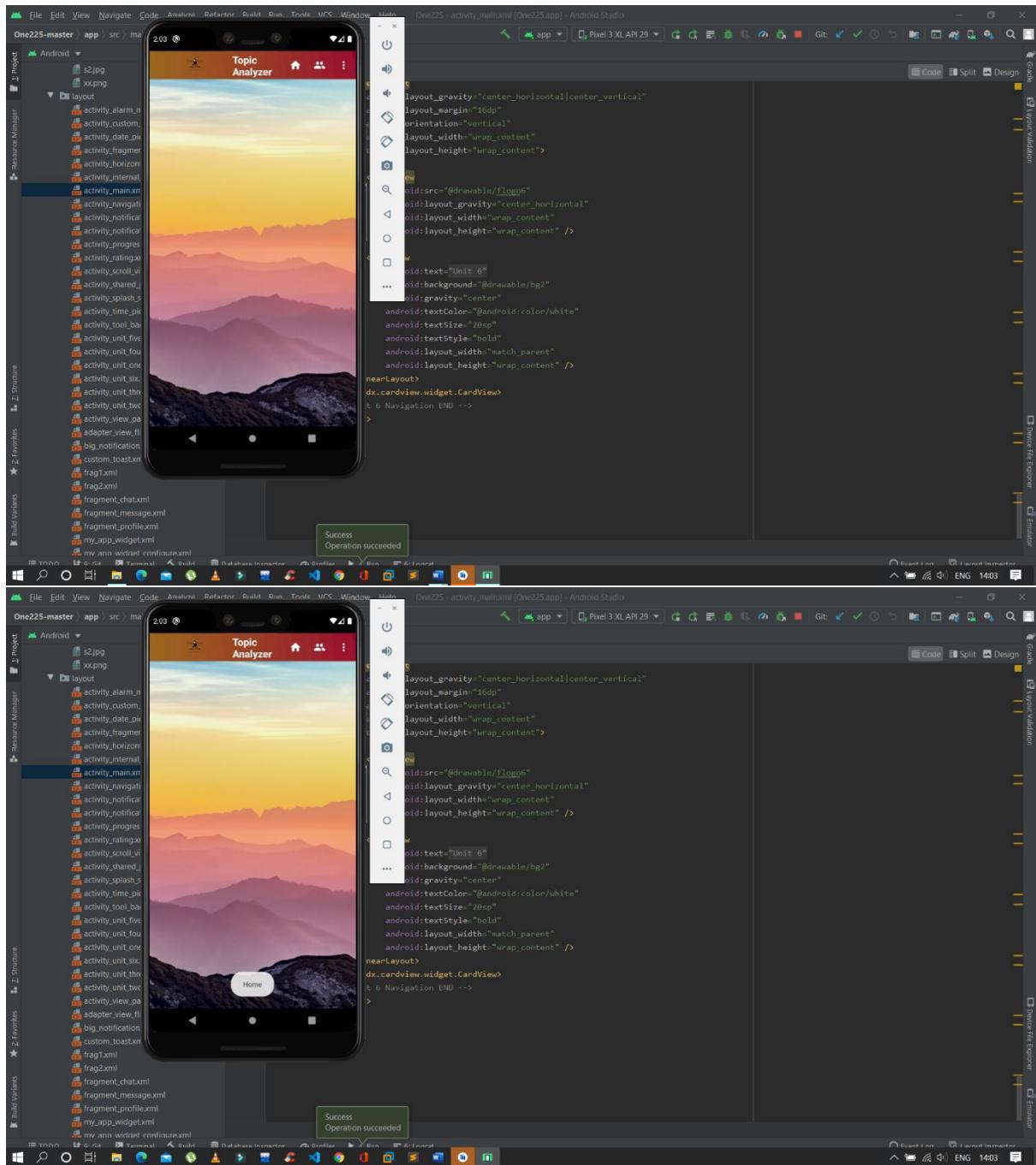


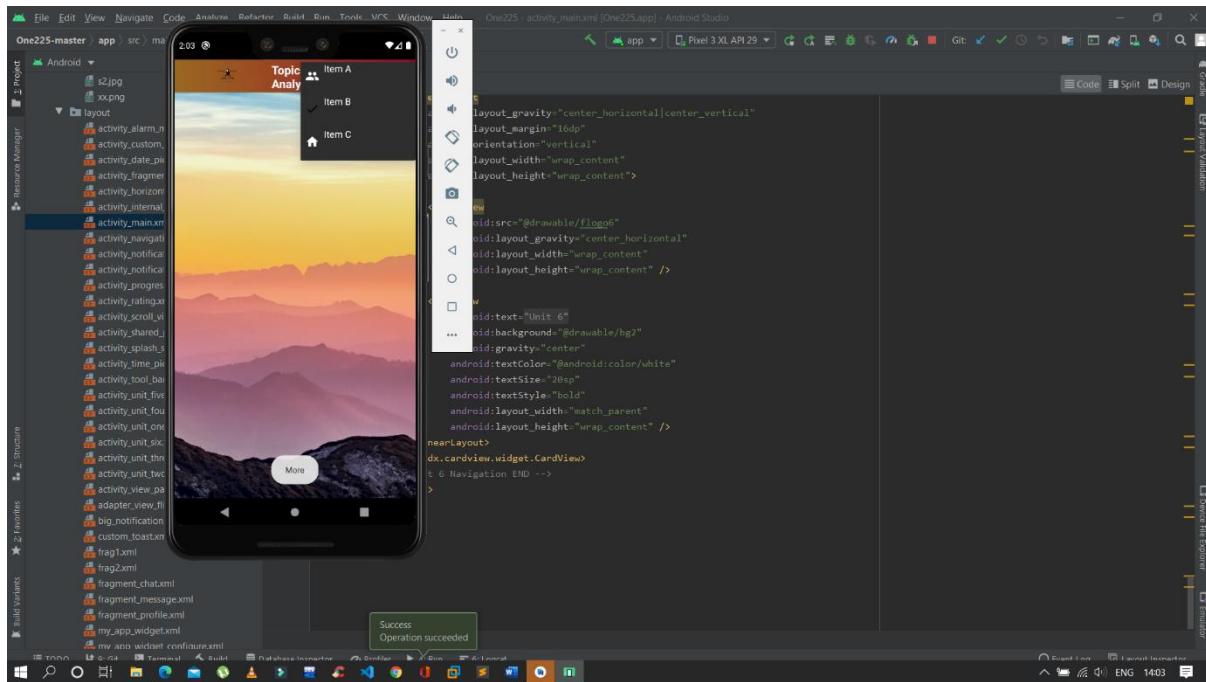
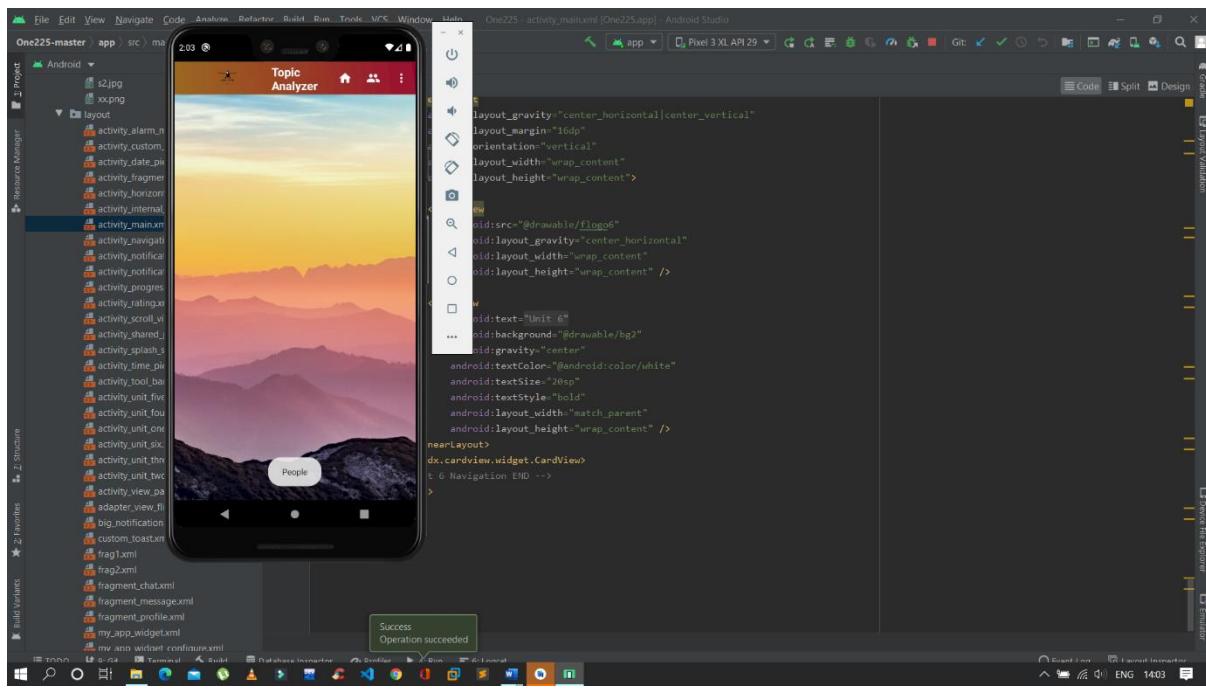


2.Horizontal Scroll View

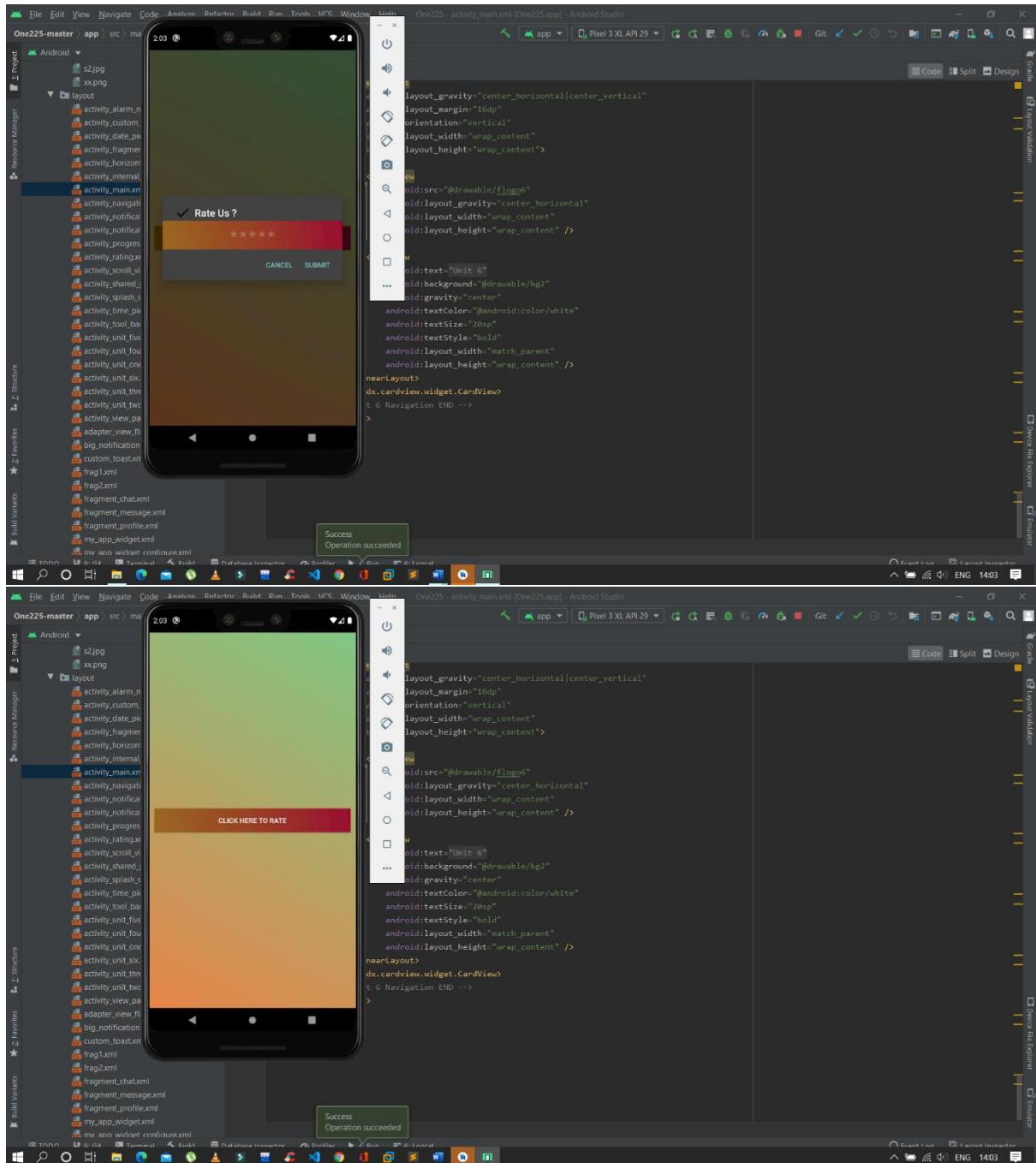


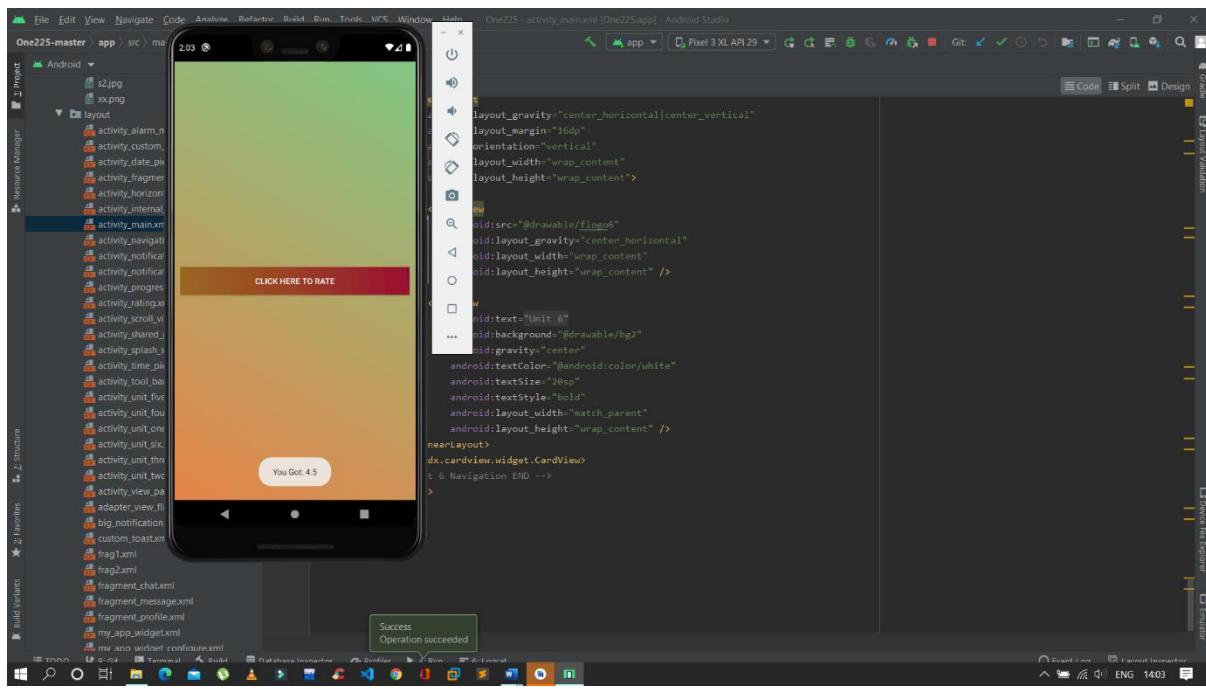
3. Toolbar



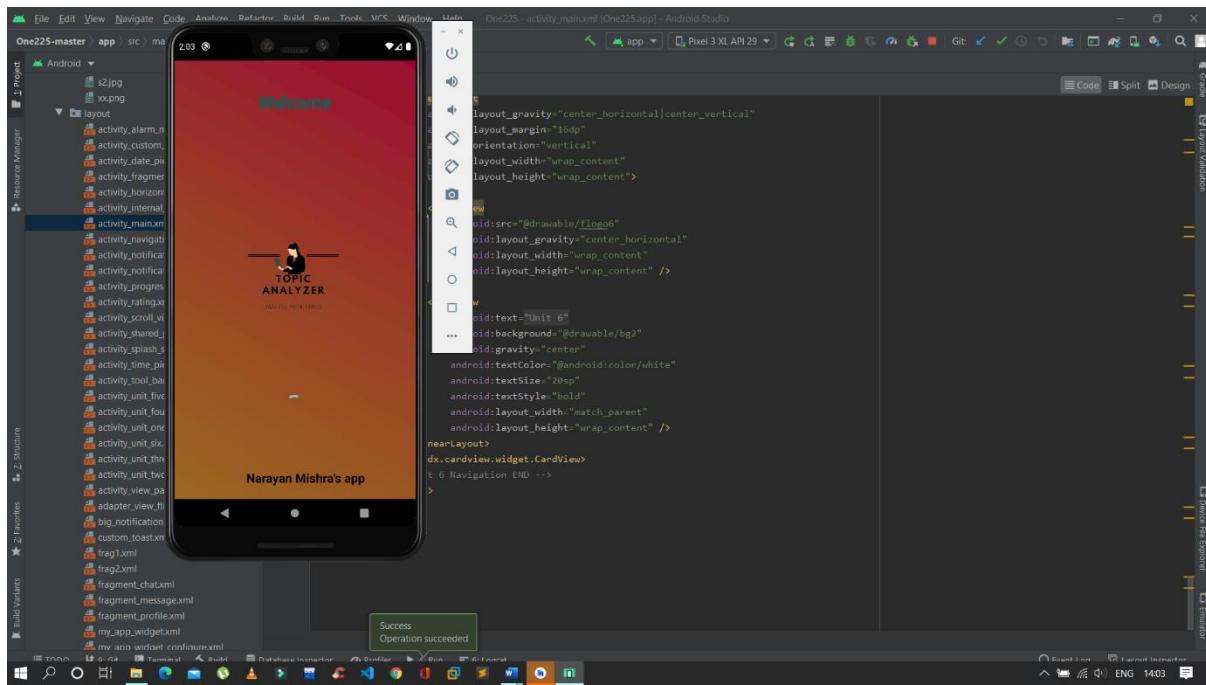


4.Rating bar

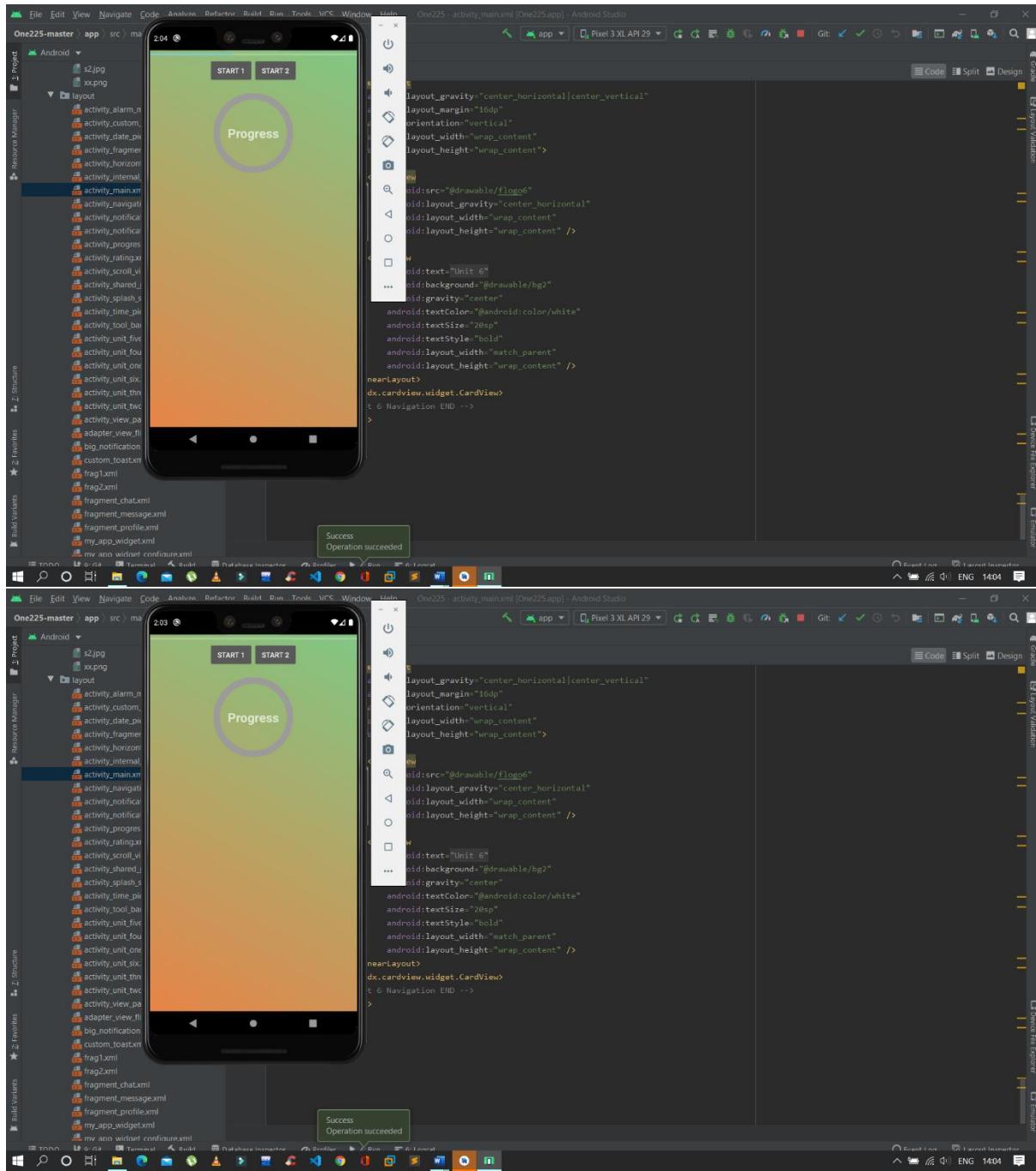


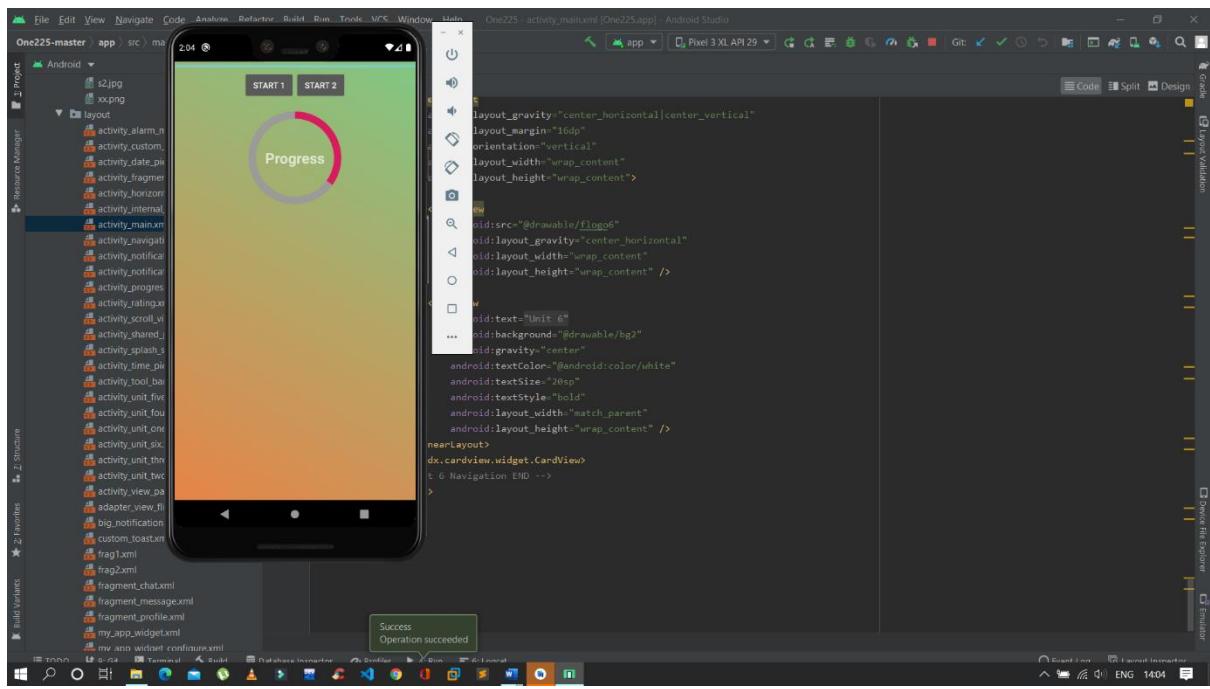


5.Splash Screen

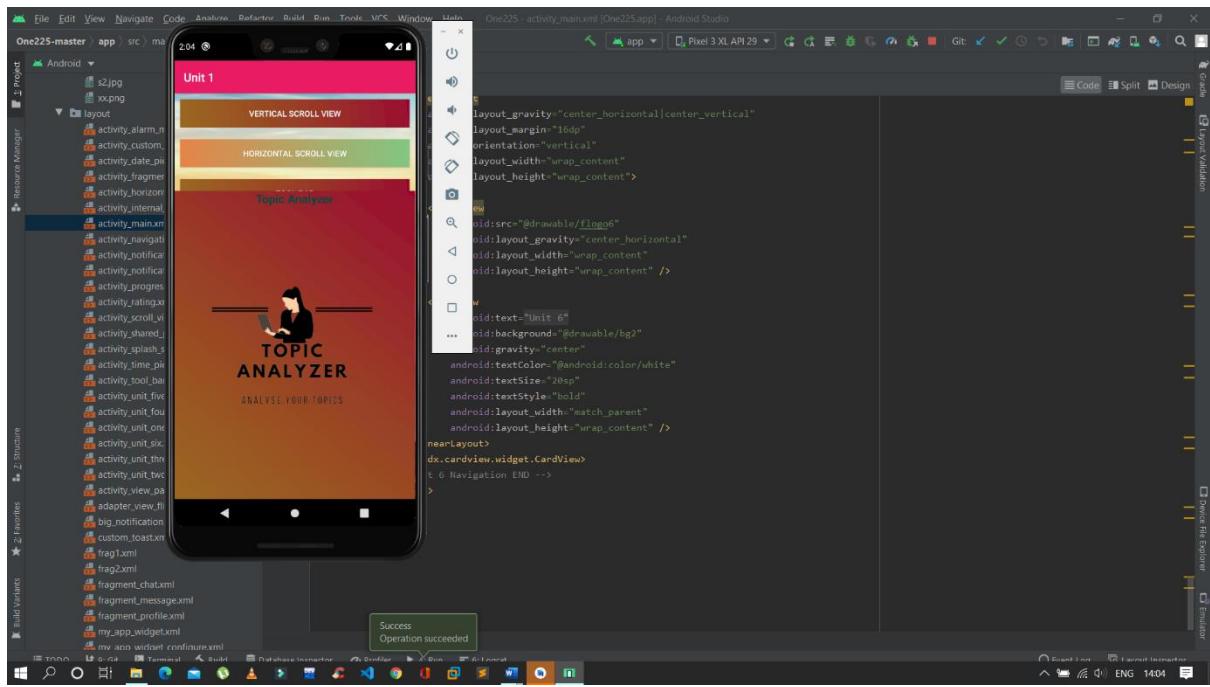


6. Progress bar



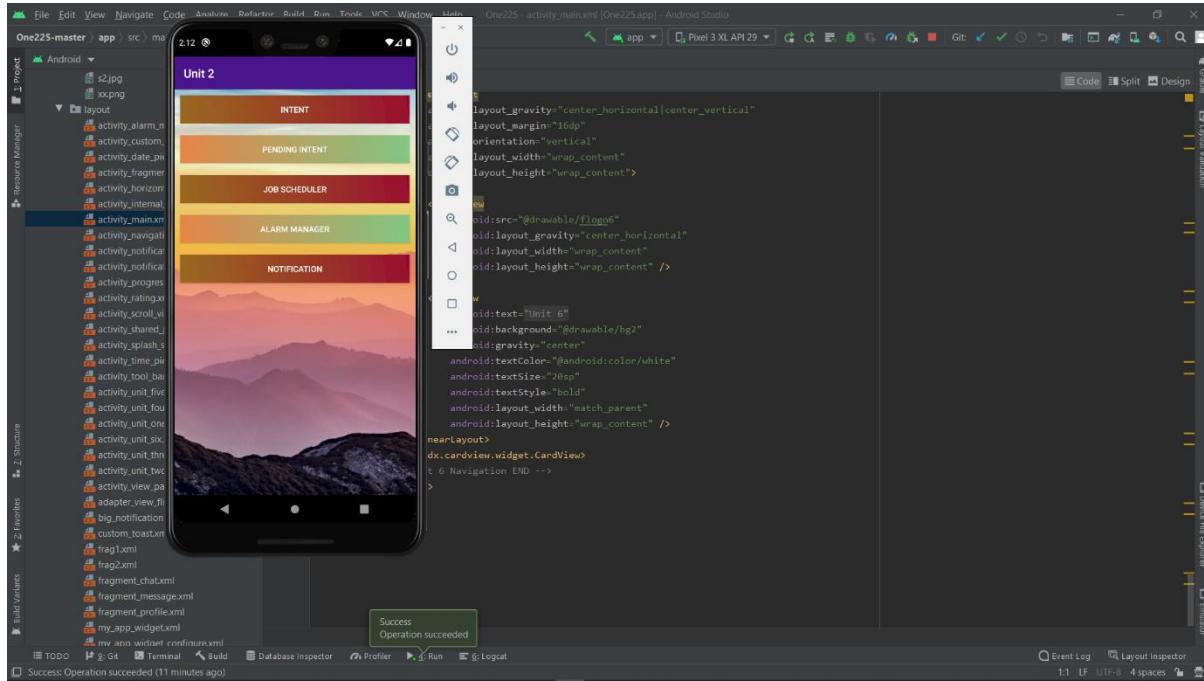


7. Custom Toast

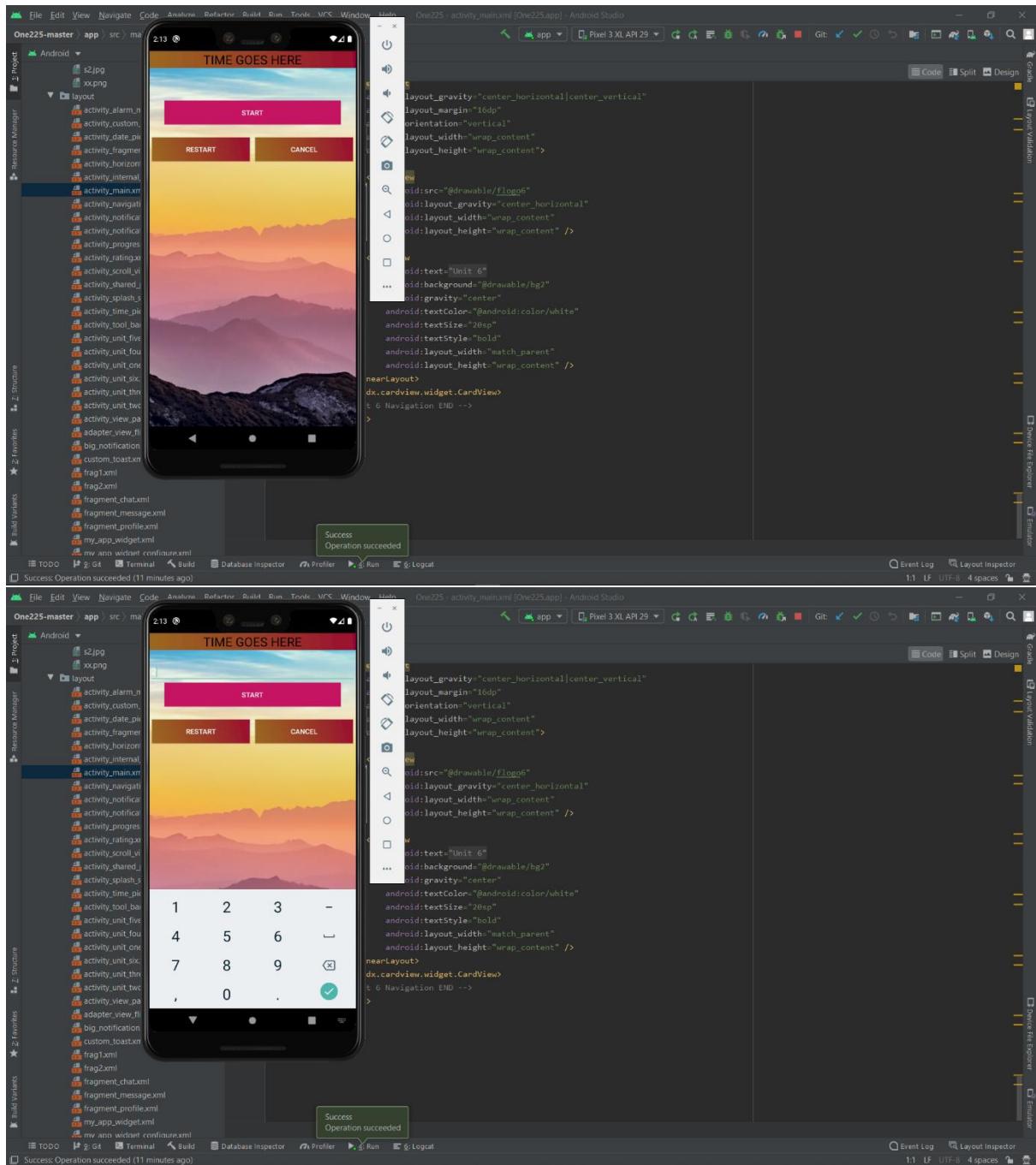


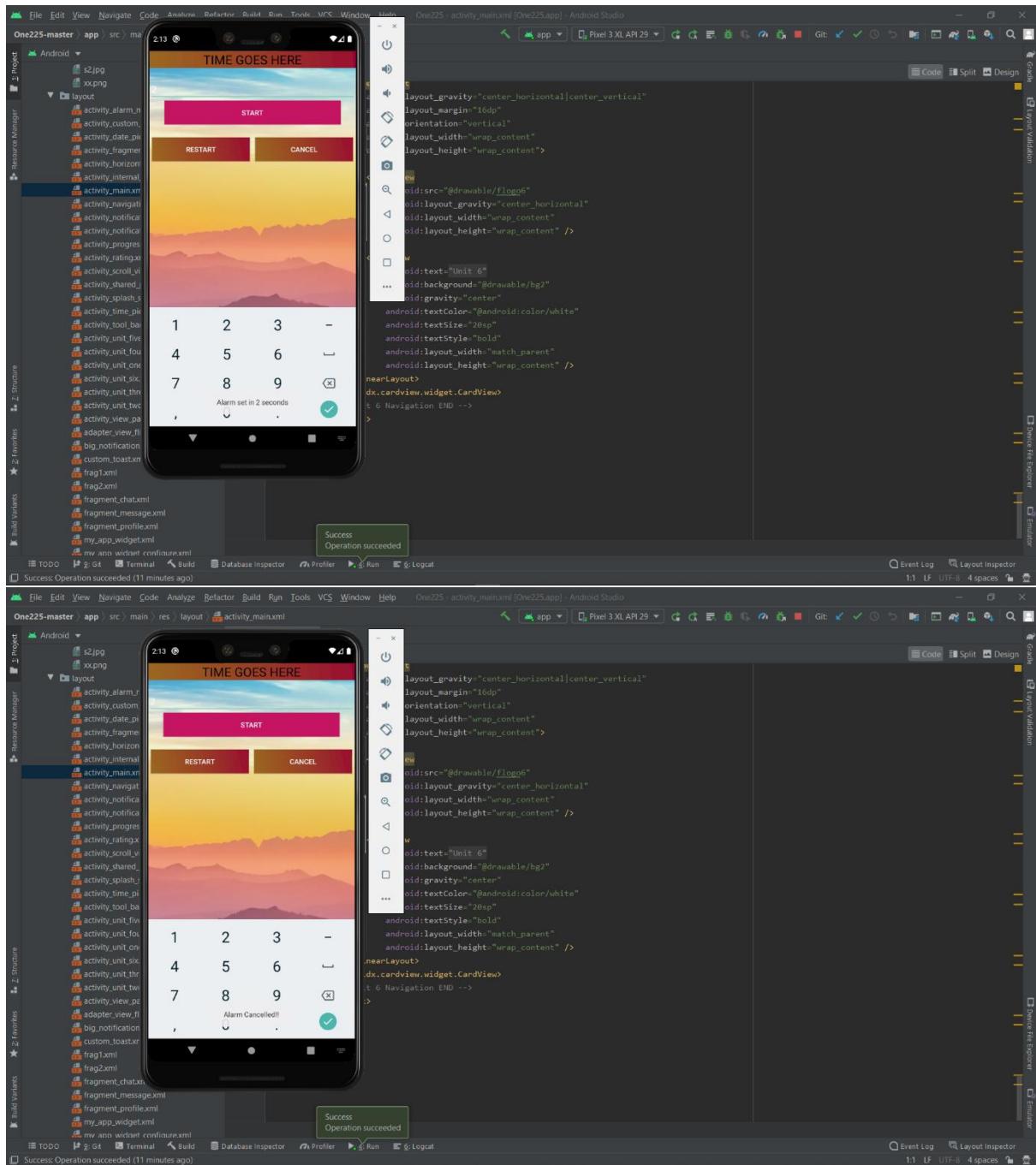
Unit 2:

Only two topics I have implemented rest of them are only buttons

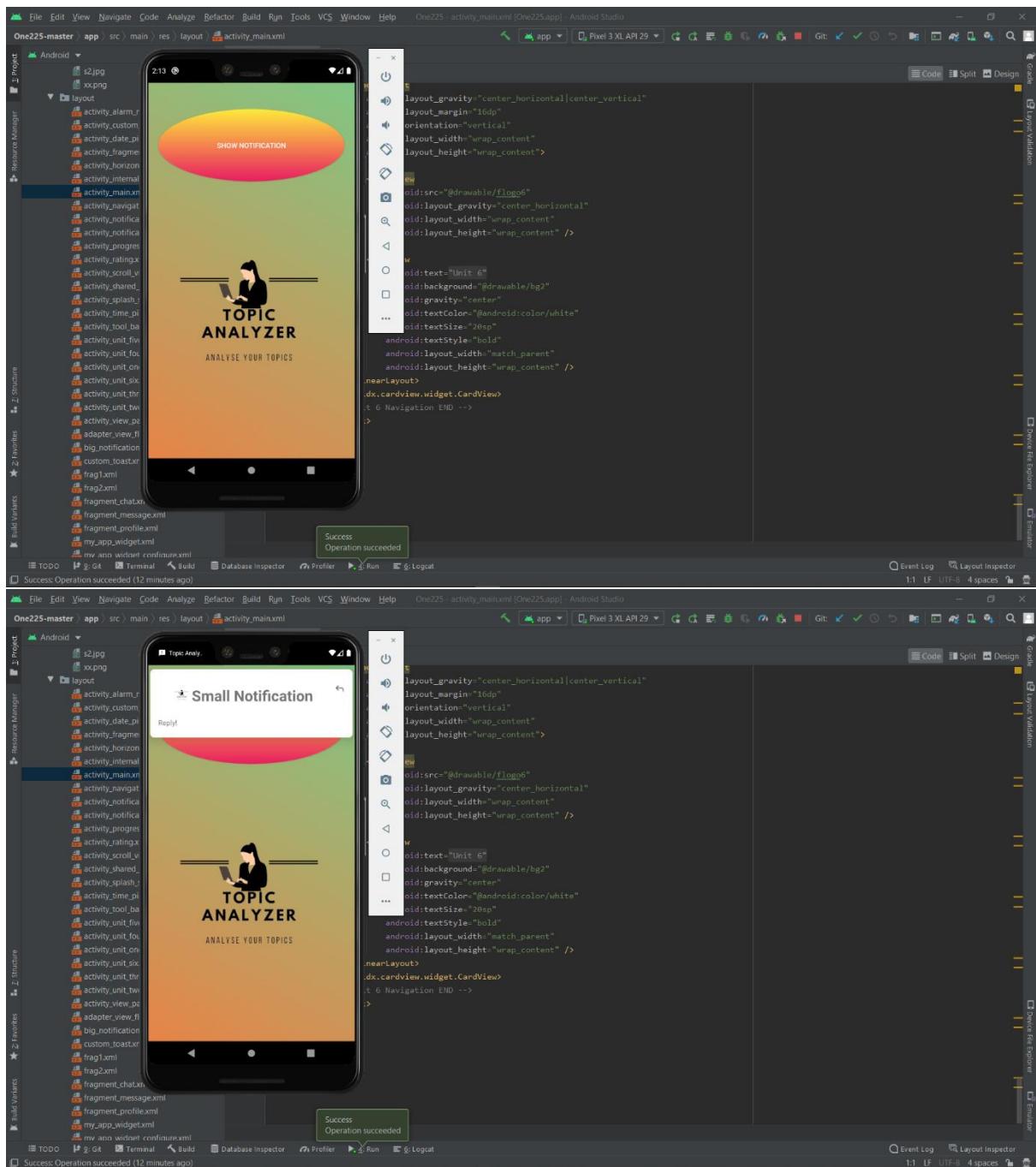


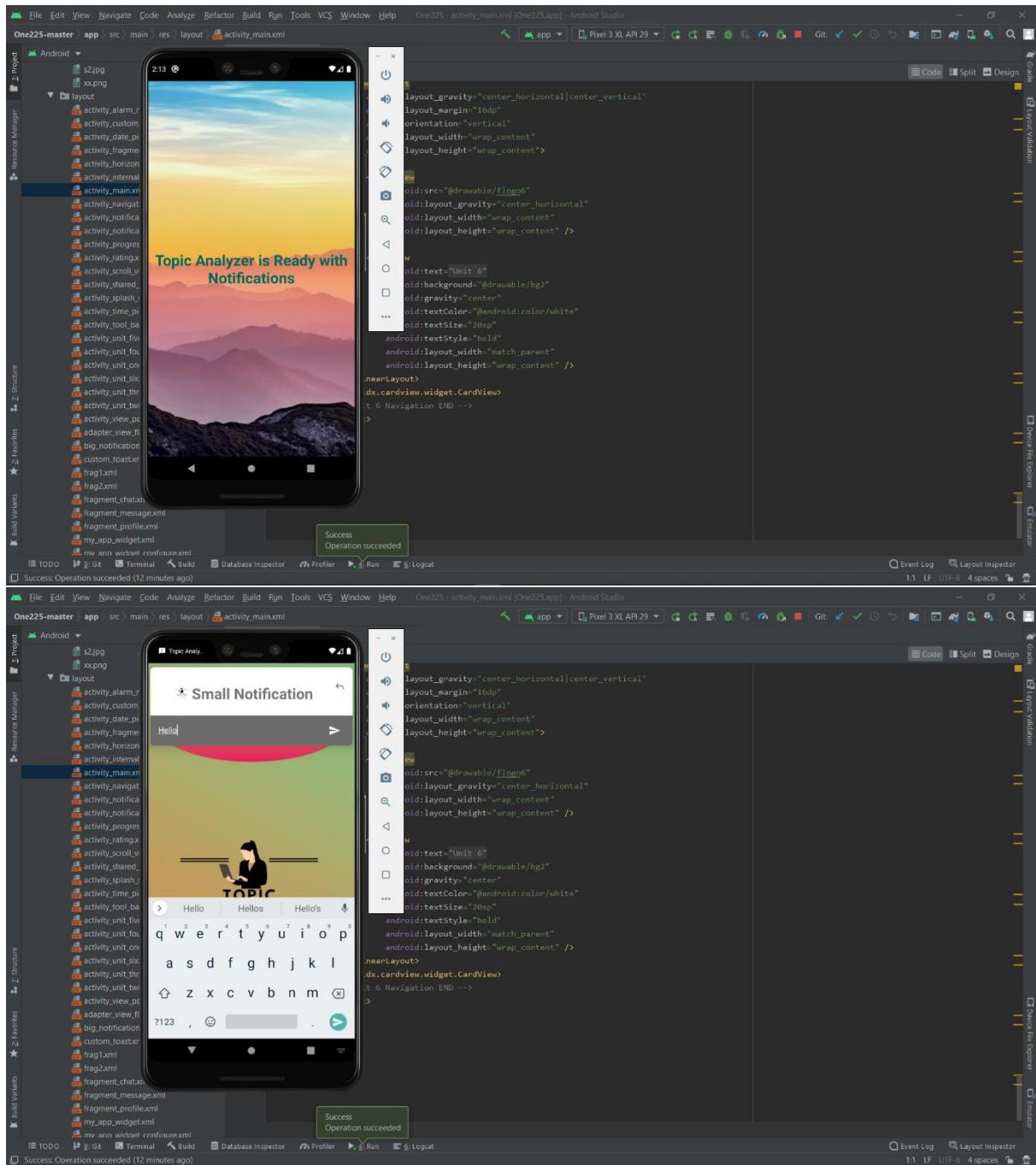
1. Alarm Manager

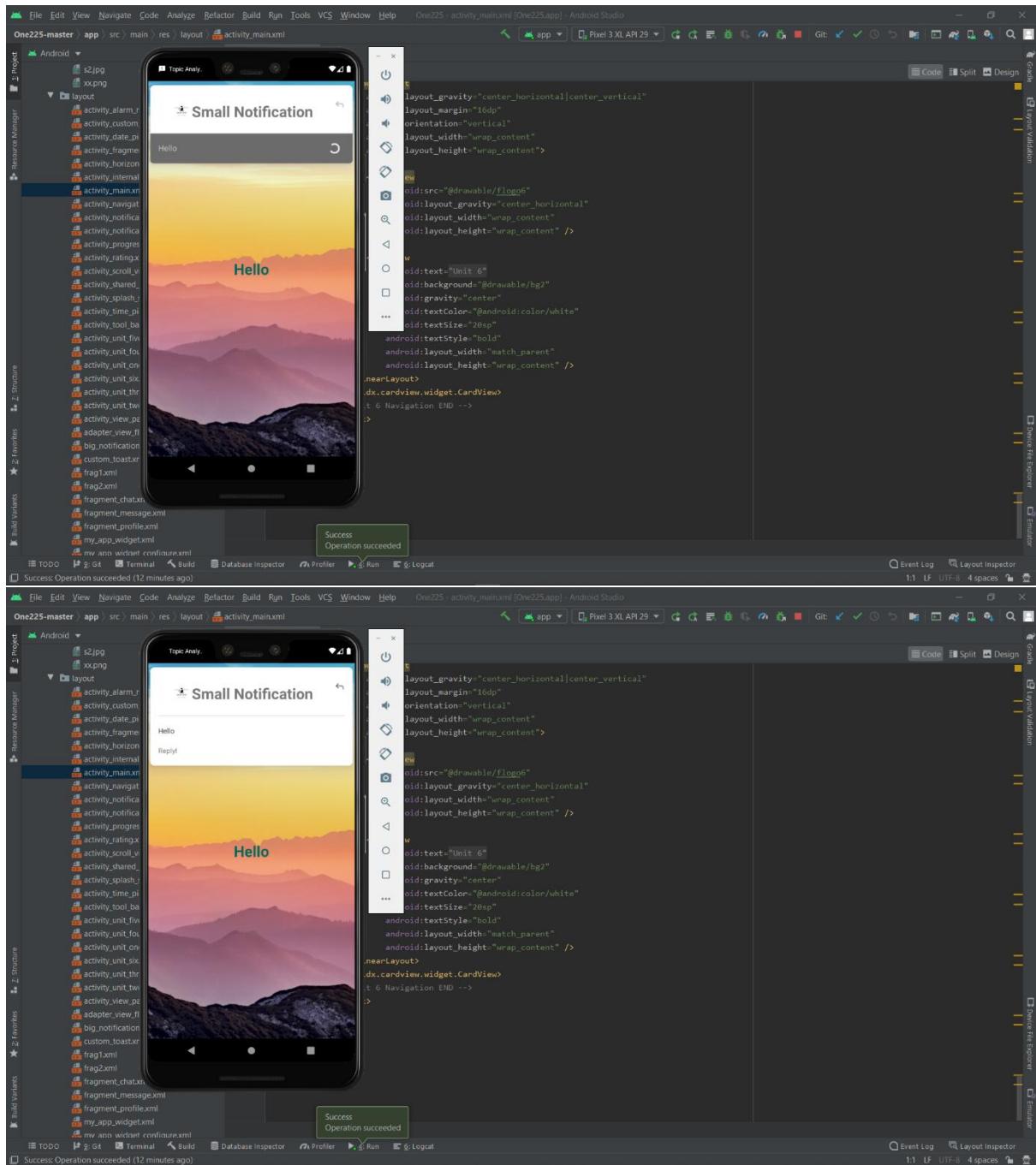




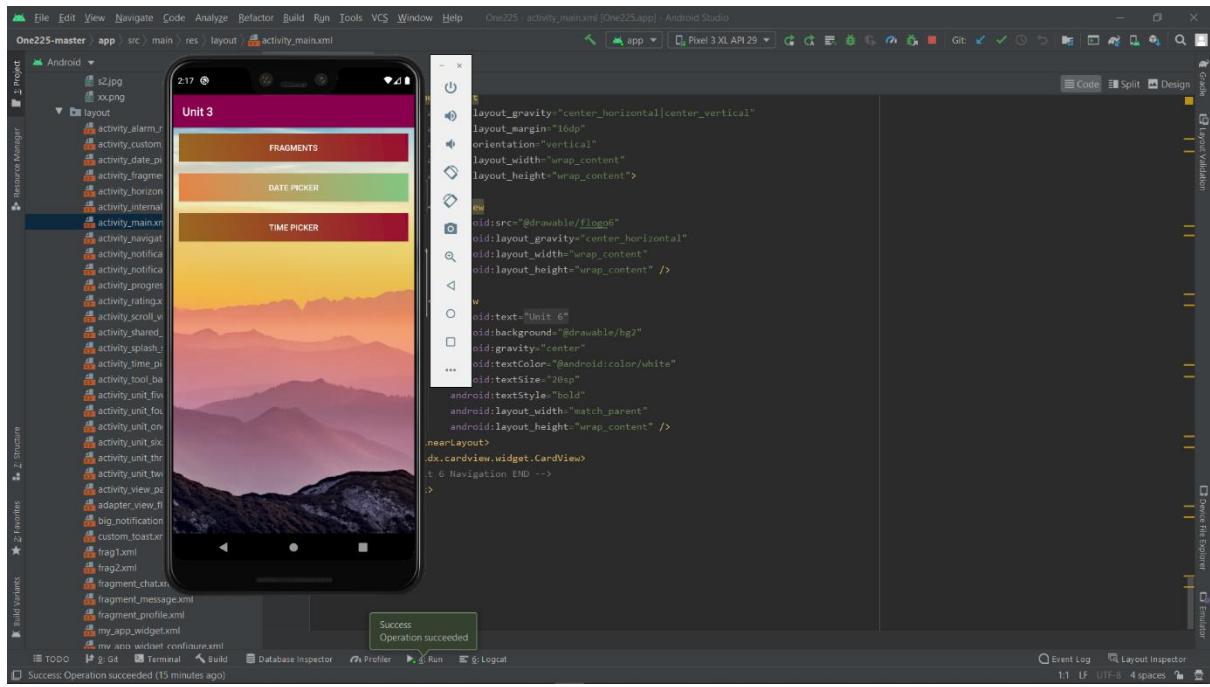
2.Notification



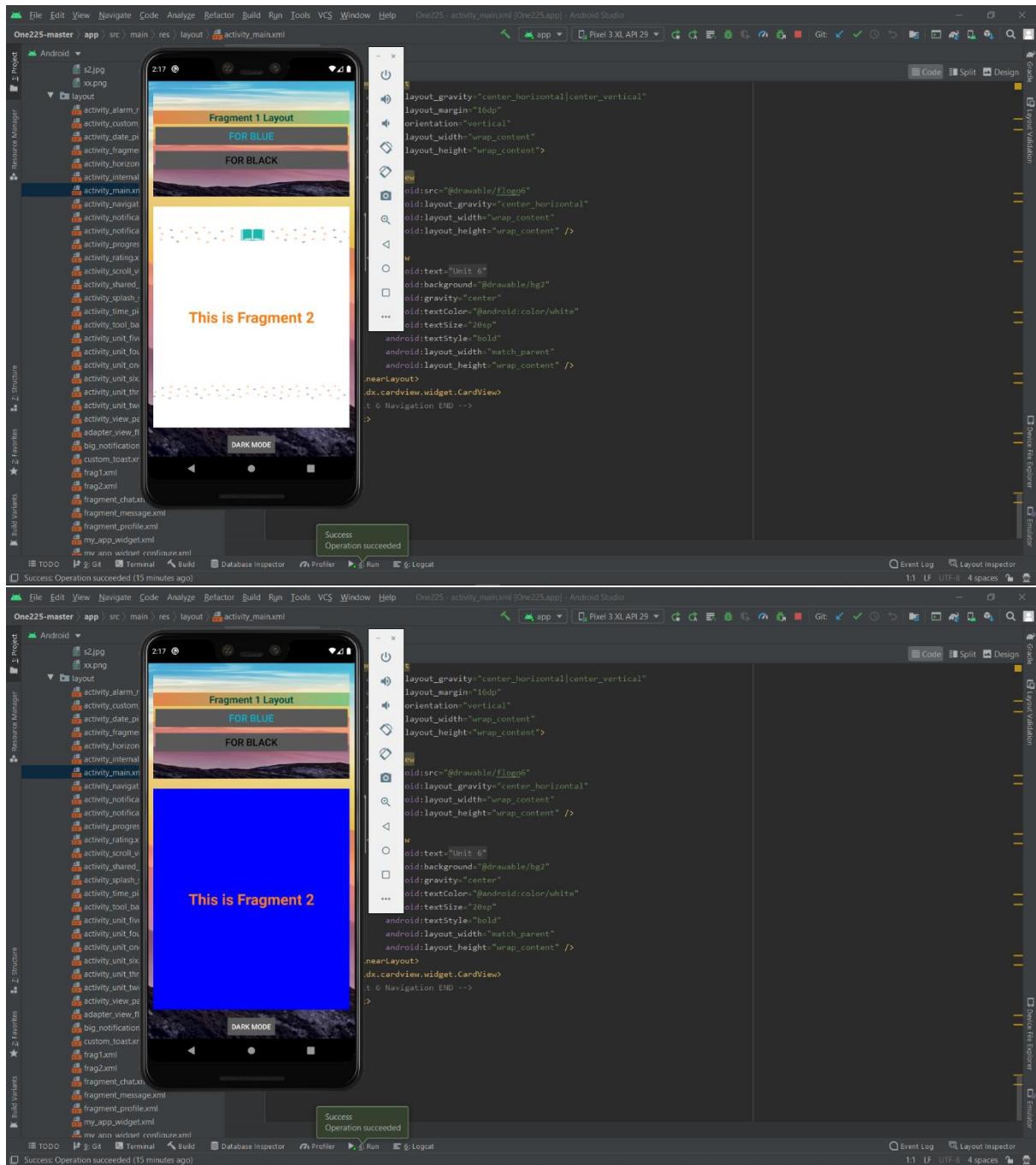


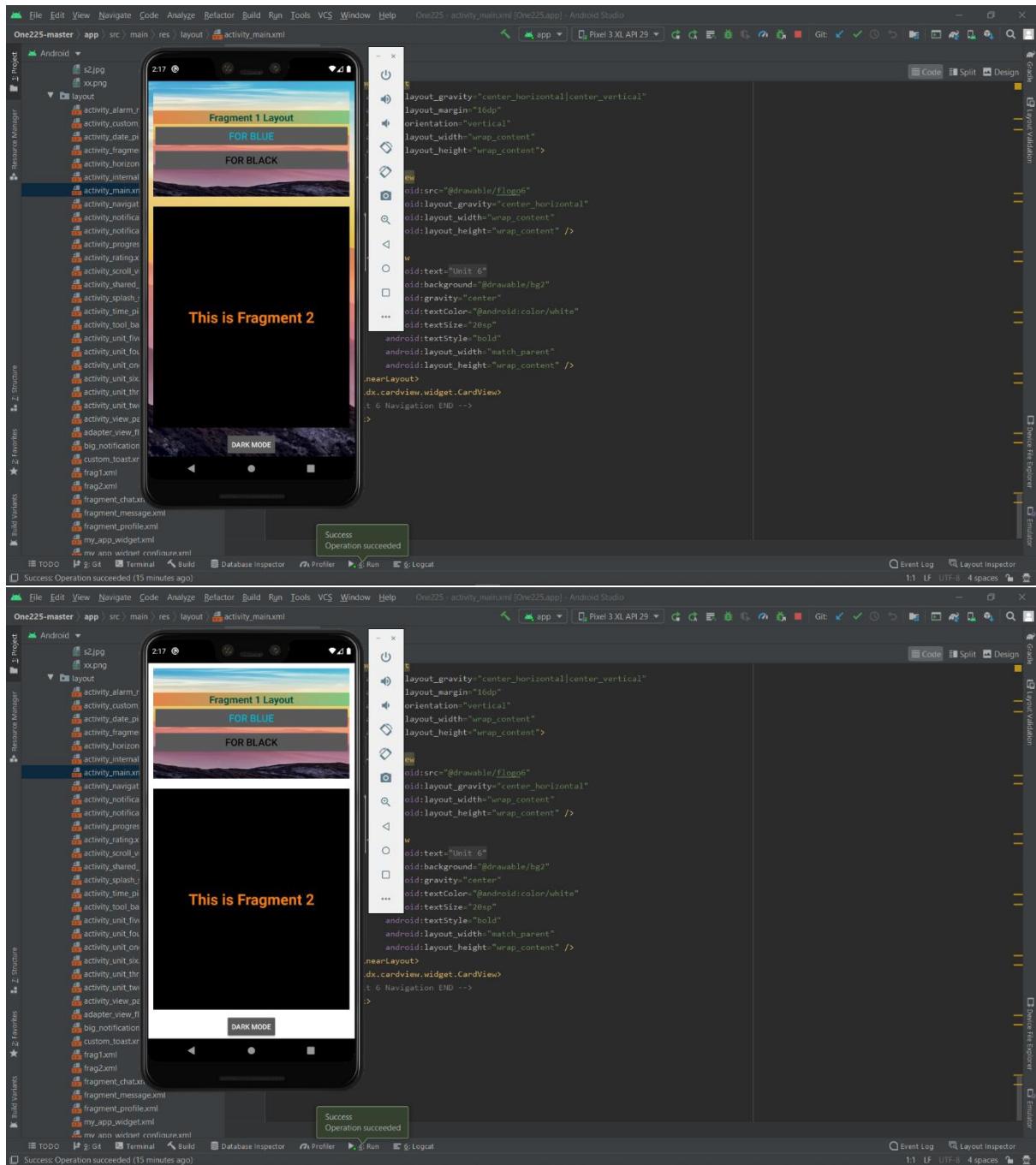


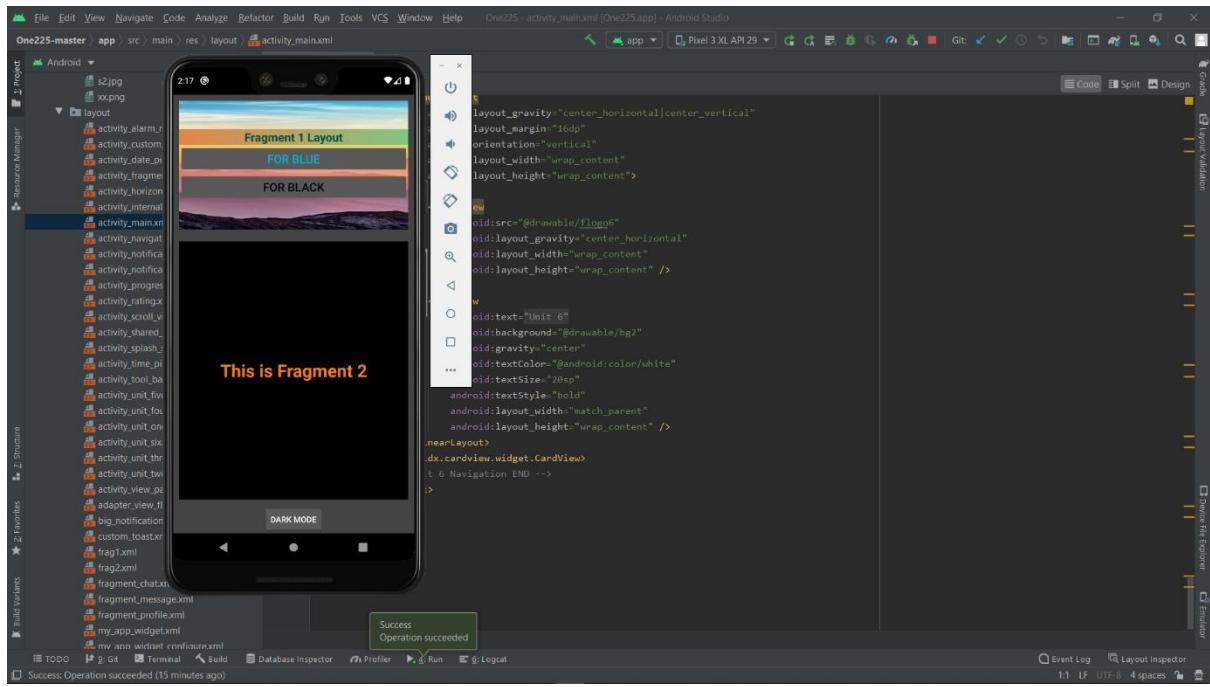
Unit 3:



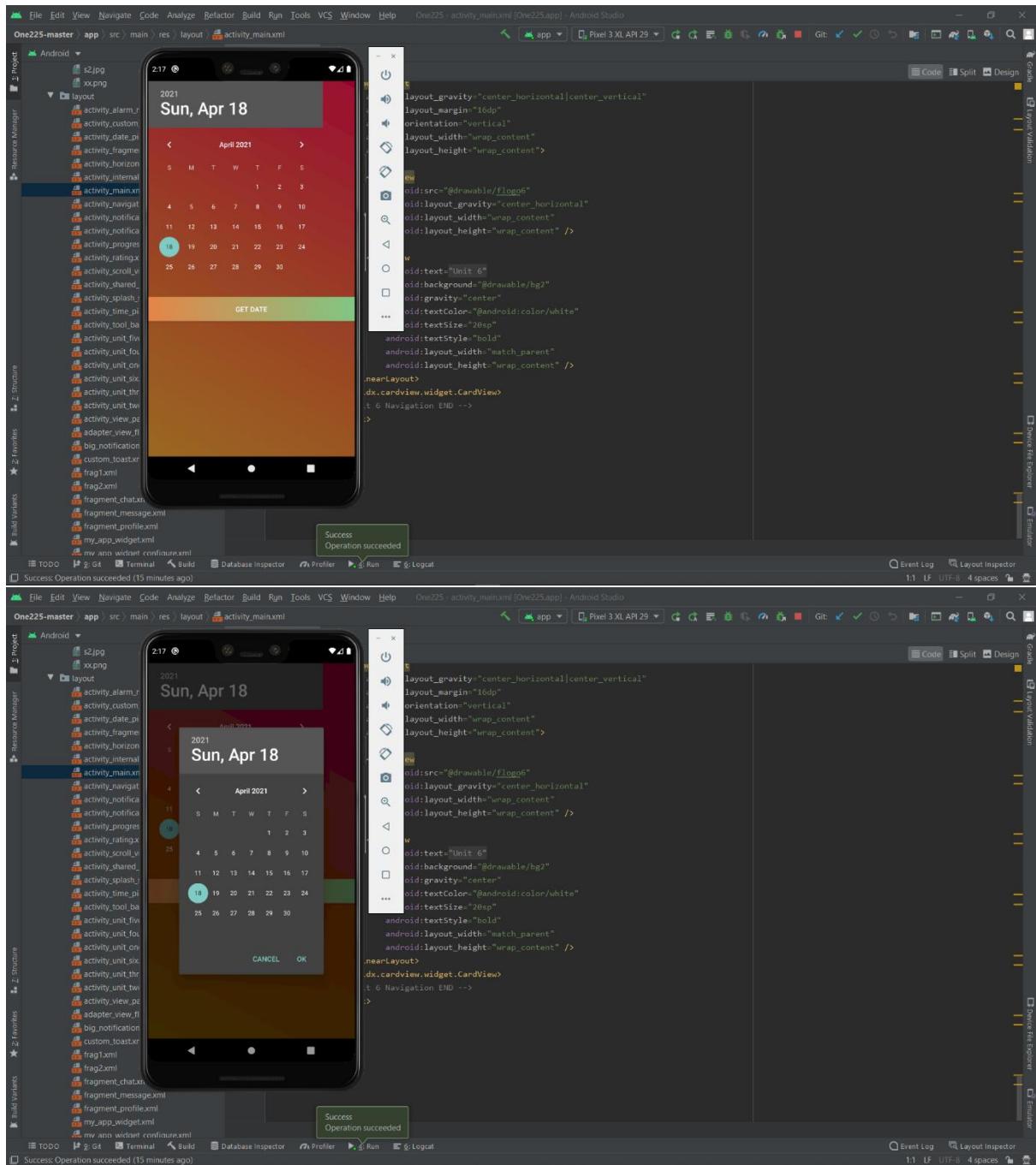
1.Fragments



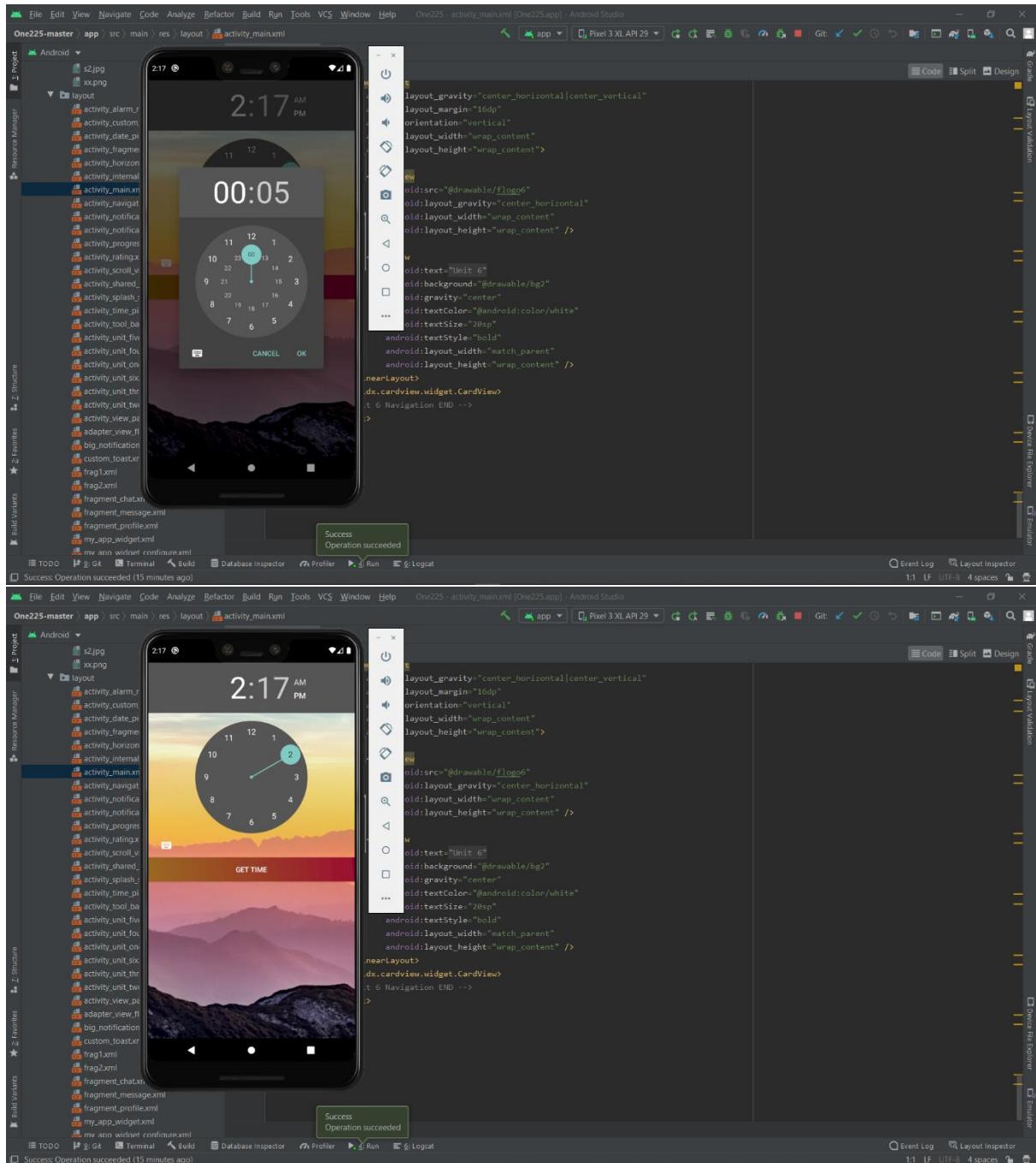


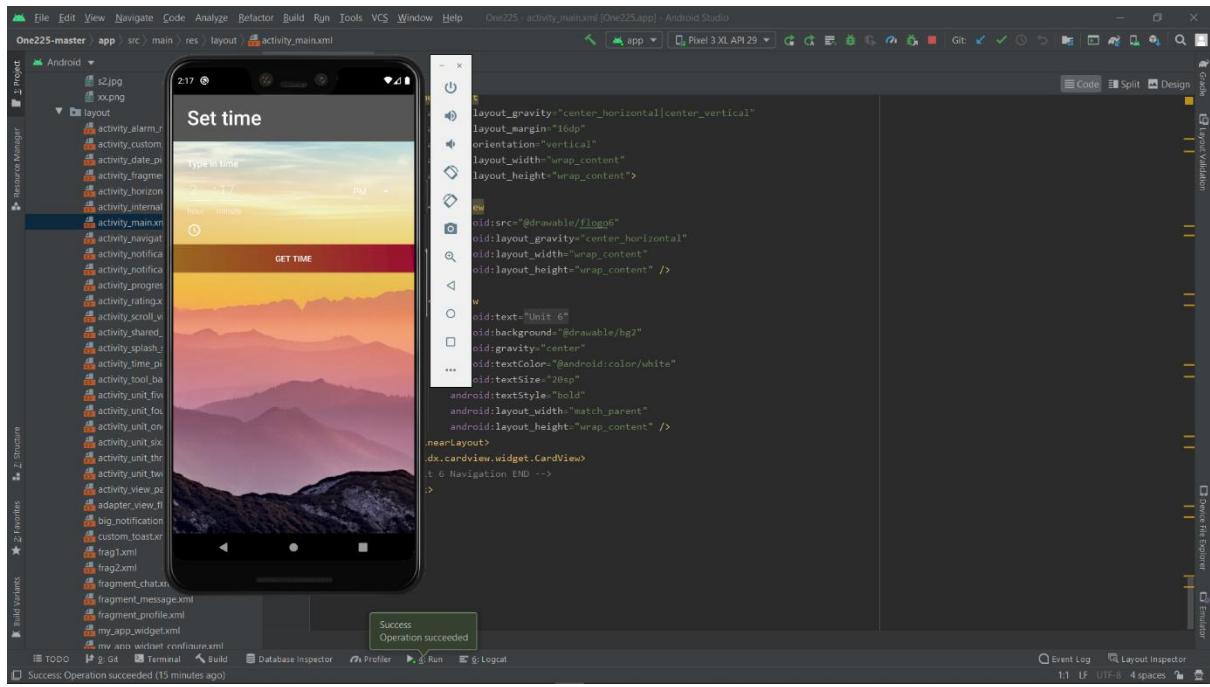


2.Datepicker



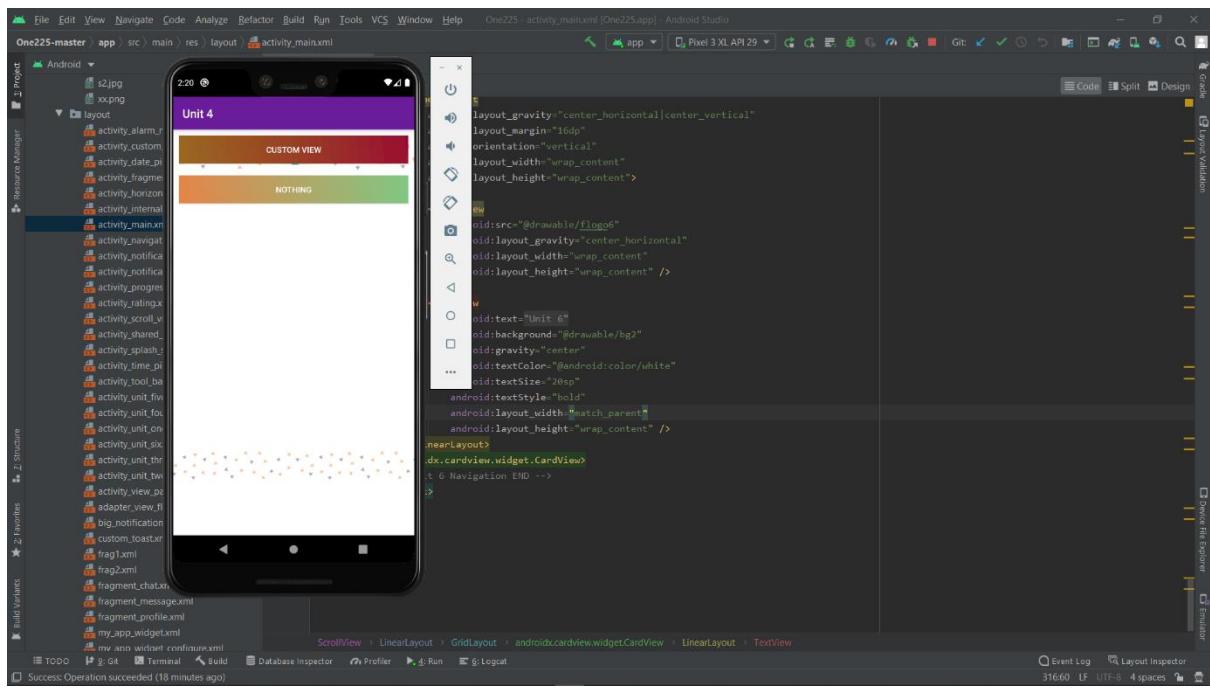
3. Timepicker



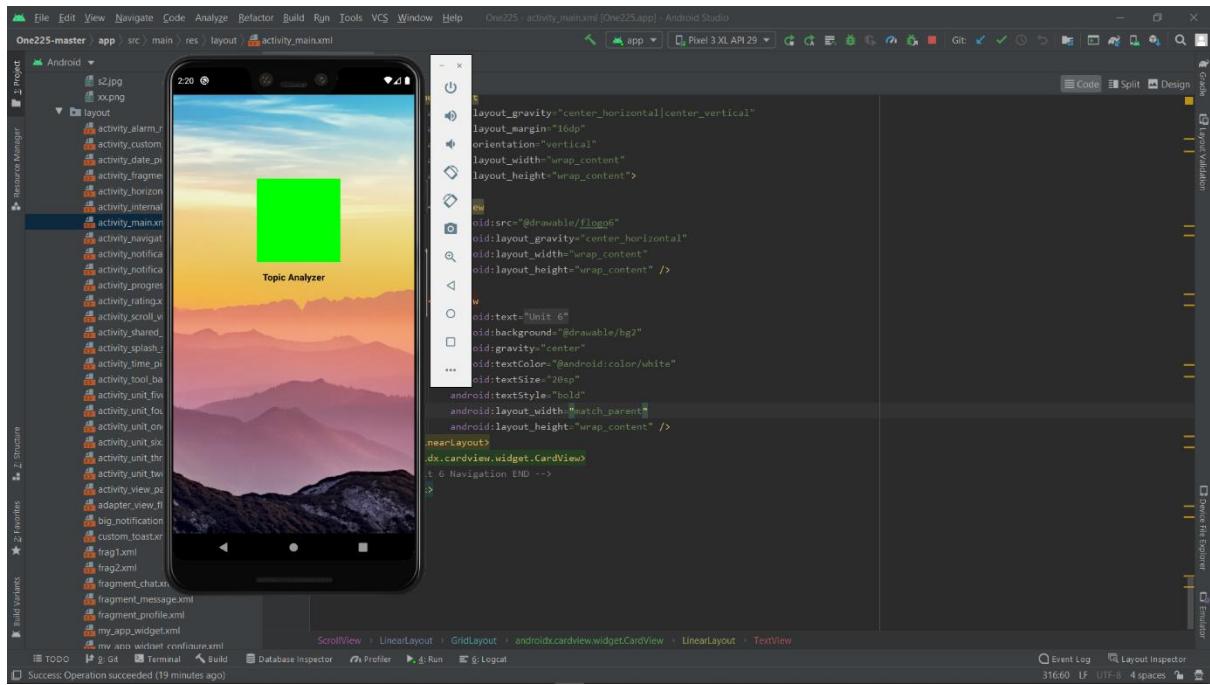


Unit 4:

I have Implemented only Custom view in it

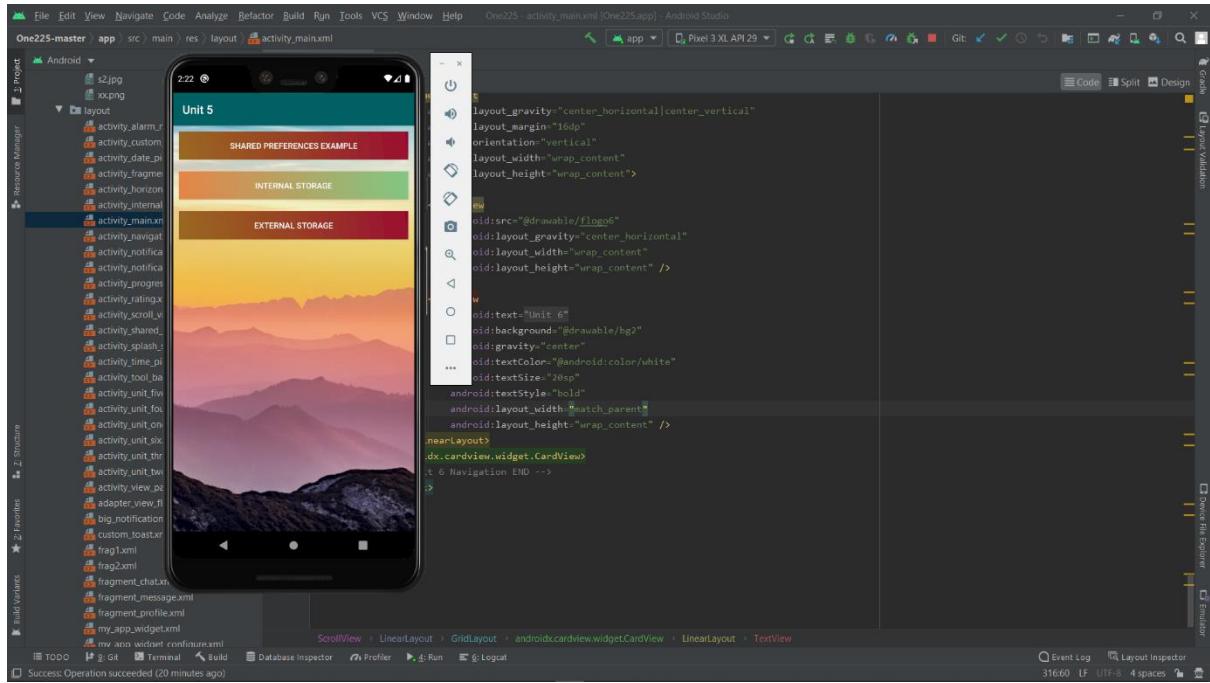


1. Custom View

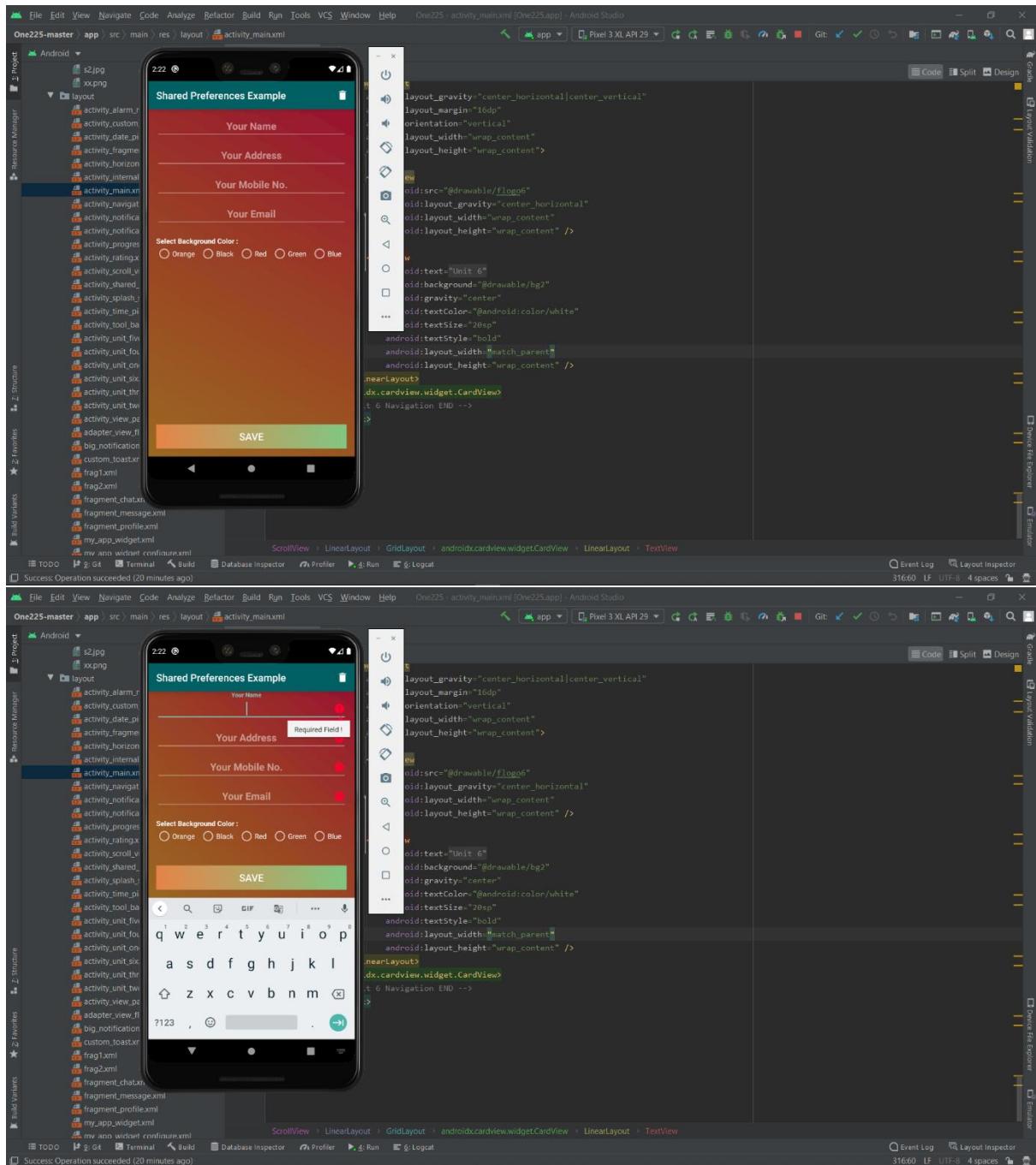


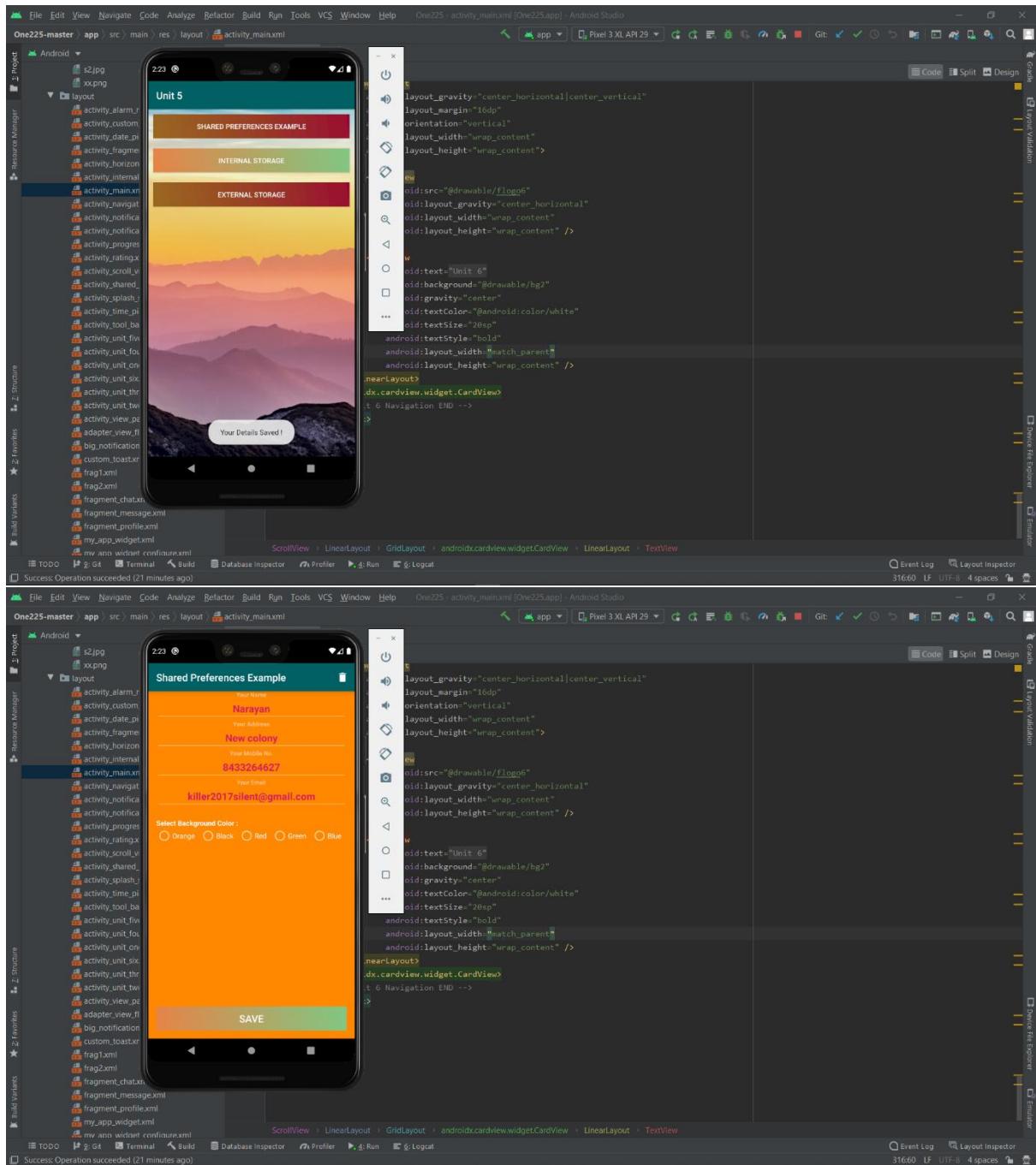
Unit 5:

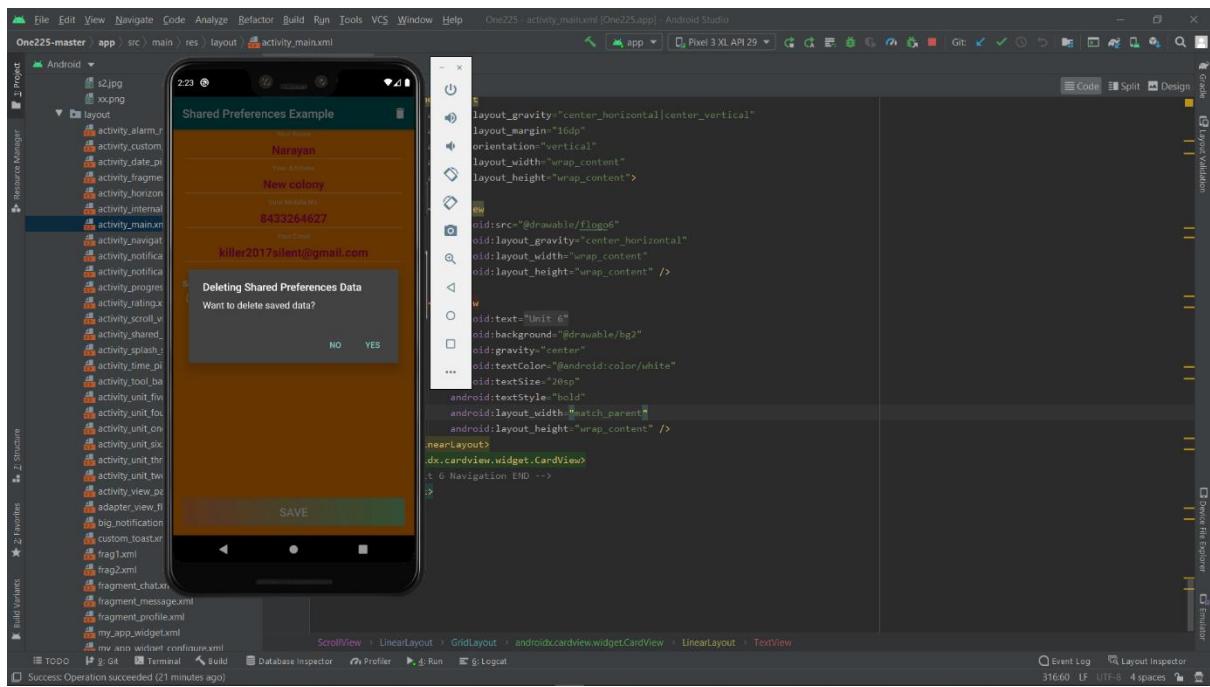
I have implemented only Shared Preference in it rest are buttons only



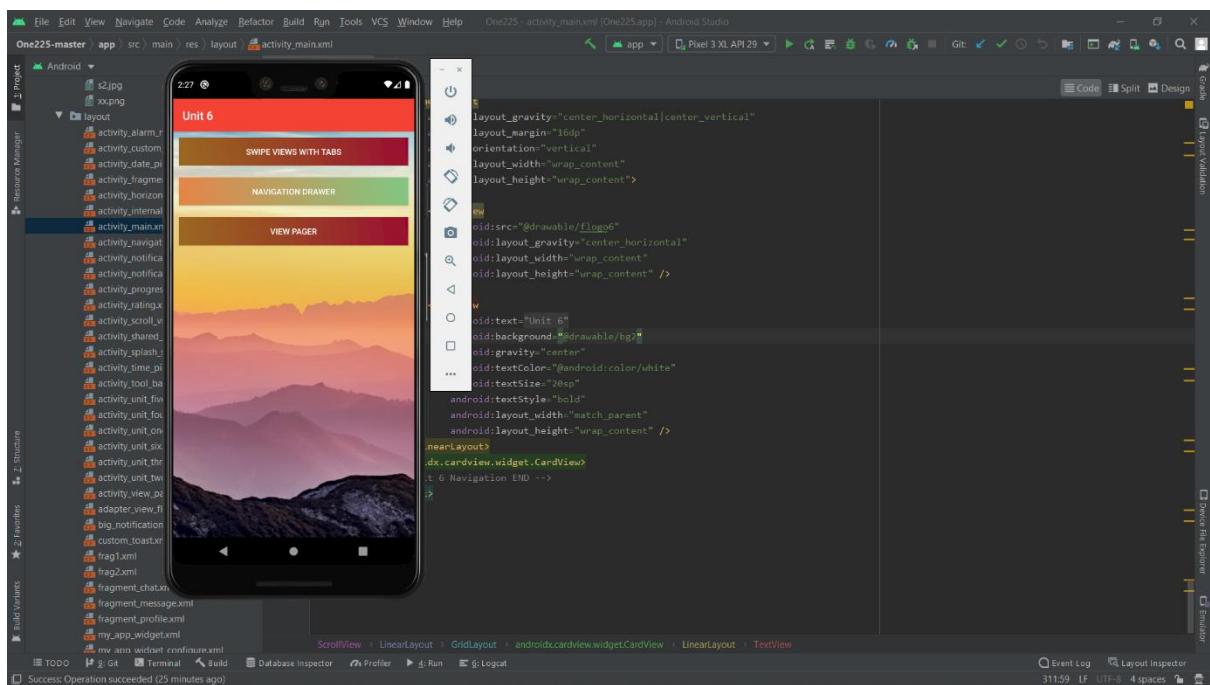
1. Shared Preference Example



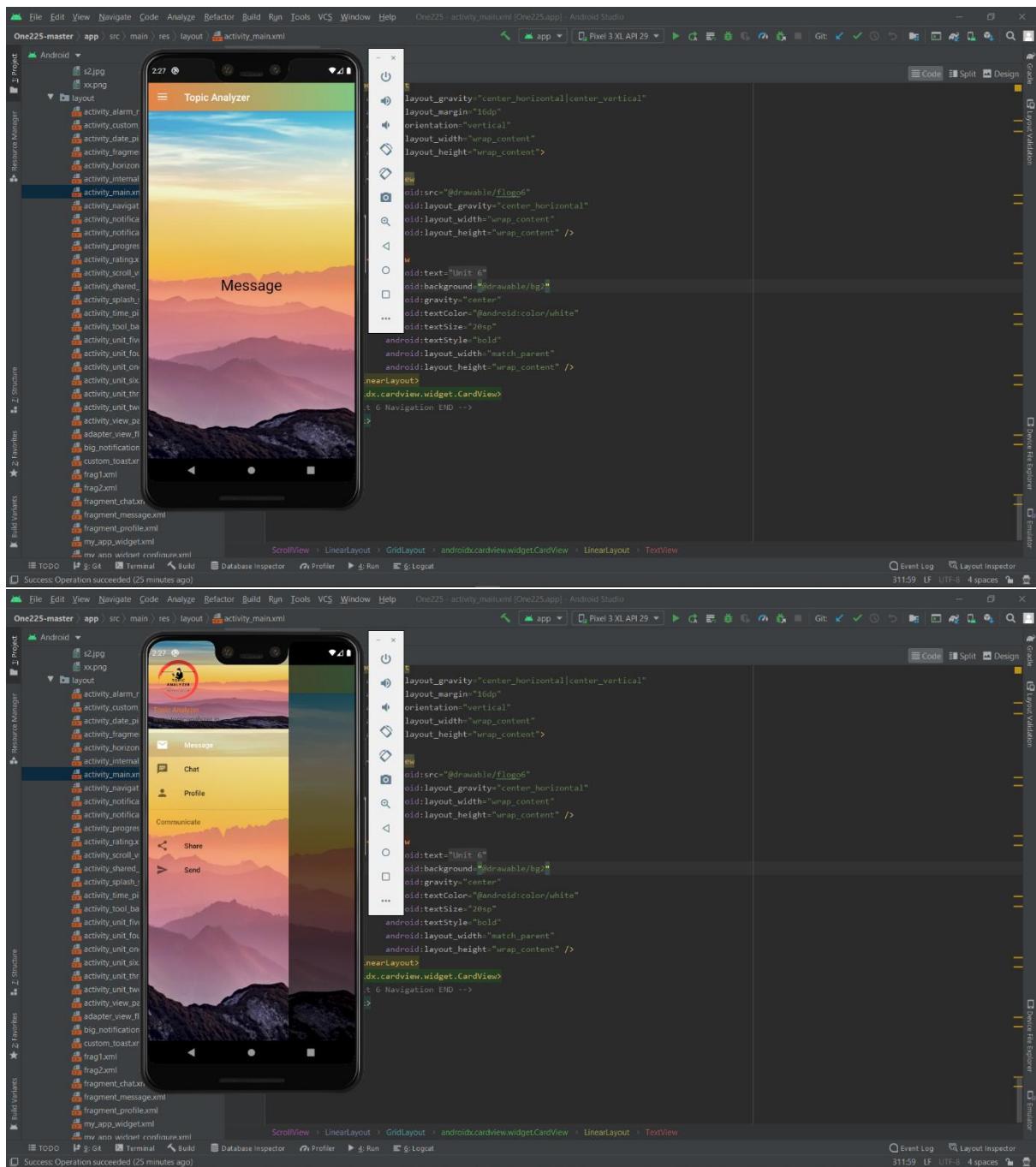


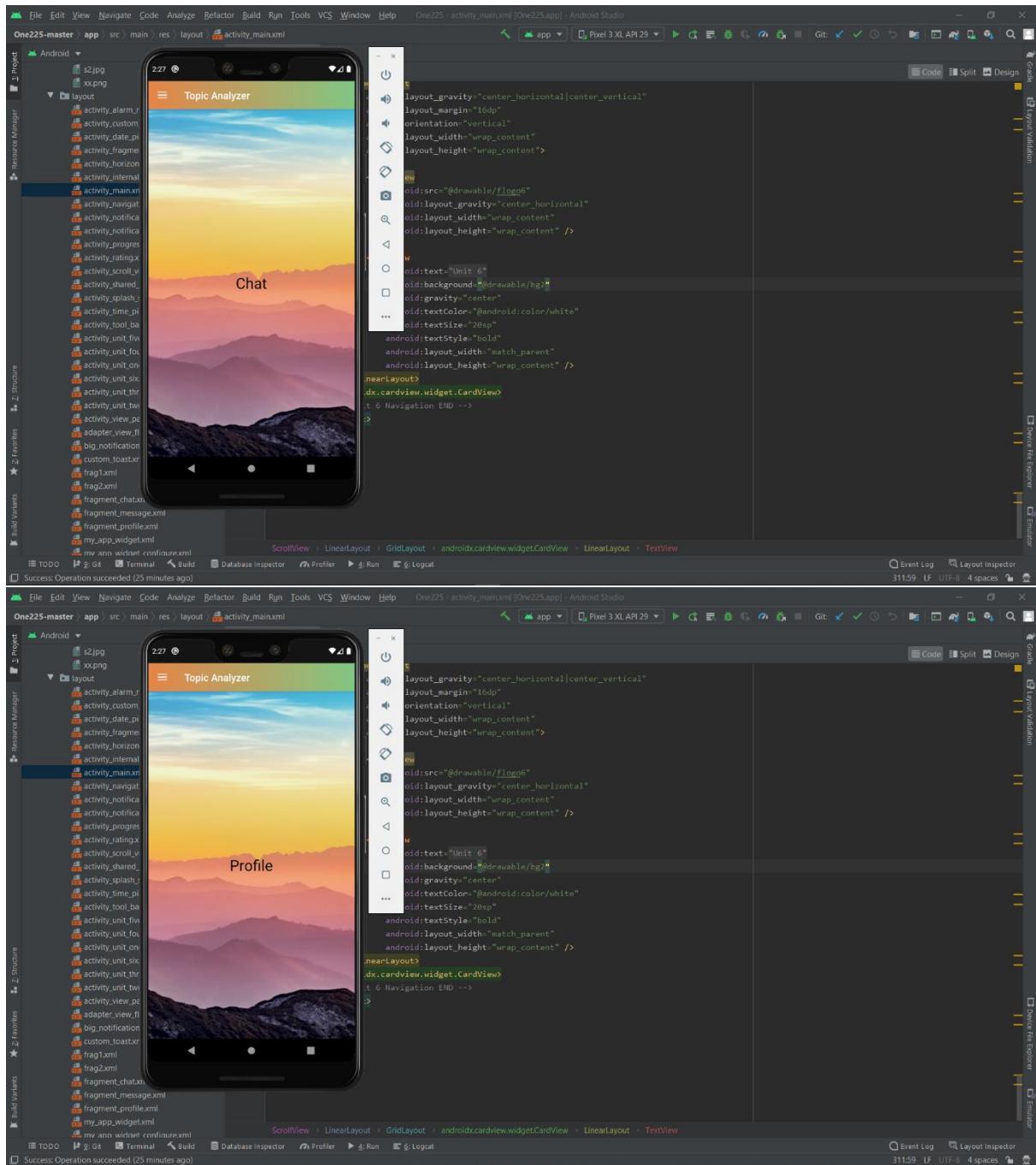


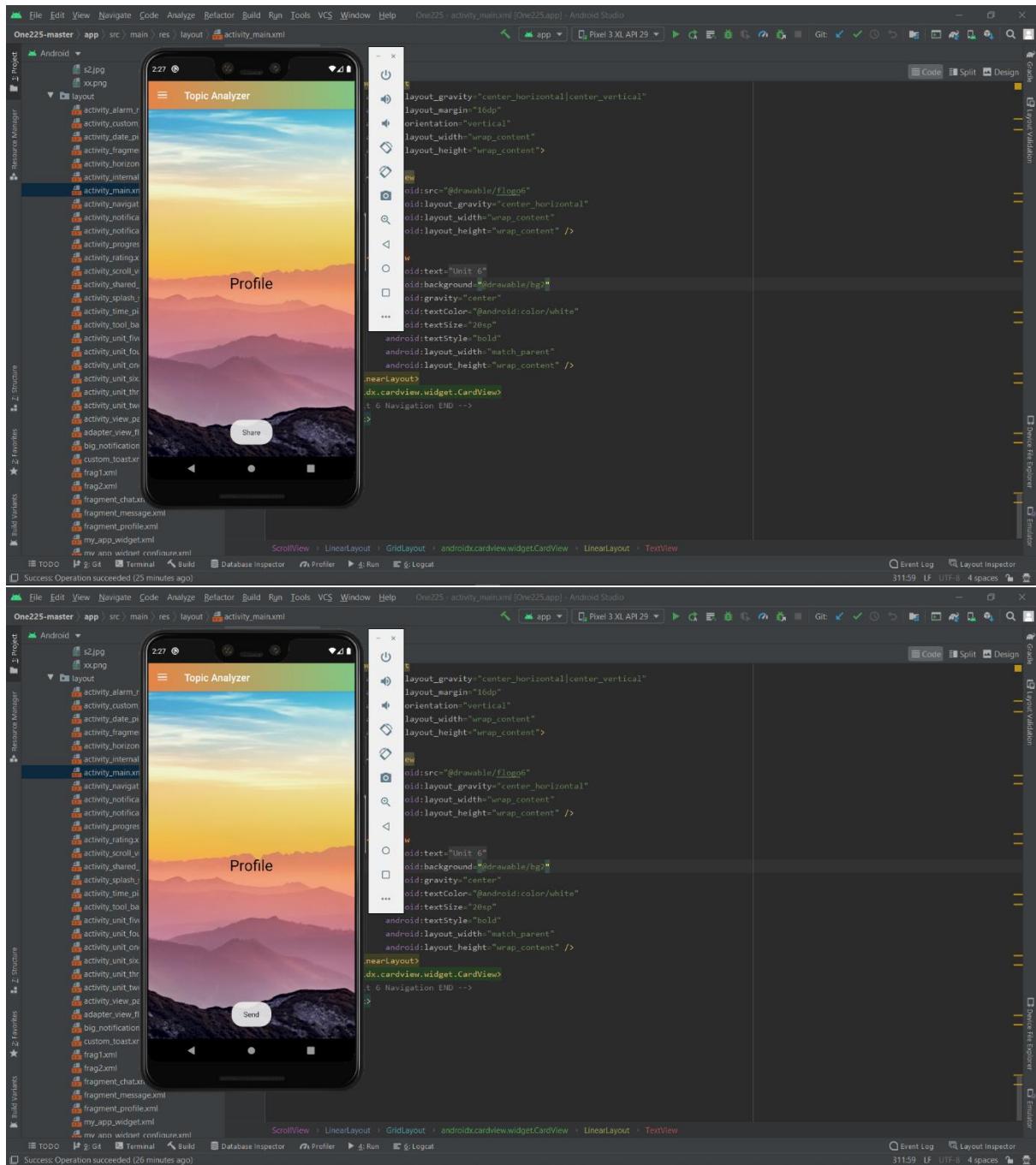
Unit 6:



1. Navigation Drawer







2. View Pager

It includes swipe view as well.

