

Aim: To make a Image viewer app in android studio.

Algorithm:

1. Open your Android Studio . Click on Start a New Android Studio Project .Give Application Name Login Form and leave other fields as it is, then click NEXT.
2. Select the Empty Activity and click NEXT.
3. Now we have activity_main.xml in which we have to make the layout of our app.
4. In the xml code of the ImageViewerActivity create an image view setting it's width height and scaleType= "center", centerInParent = "True".. Thus our layout is finished.
5. Go to ImageViewerActivity.java file and write the java code for viewing an image in our activity.
6. Go to android manifest file of the project under activity tab of ImageViewerActivity and add code to enable the intent_filter to create the view and set category as default.
- 7.Thus our app is created.

Activity_main.xml:-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="Welcome! to my Image viewer Made by Shubh Krii
Narayan"
```

```
        android:textSize="30sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    </androidx.constraintlayout.widget.ConstraintLayout>
```

activity_image_viewer.xml:-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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"    tools:context=".MainActivity">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_centerInParent="true"
        android:scaleType="centerInside"    android:id="@+id/imageView"
        />

</androidx.constraintlayout.widget.ConstraintLayout>
```

AndroidManifest.xml:-

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
package="com.example.imgviewer">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.ImgViewer">
        <activity
            android:name=".ImageViewerActivity"
            android:exported="true" >
            <intent-filter >
                <action android:name="android.intent.action.VIEW" />
                <category android:name="android.intent.category.DEFAULT" />
                <data android:mimeType="image/*"/>
            </intent-filter>
        </activity>
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER"
            />
            </intent-filter>
        </activity>
    </application>

</manifest>

```

MainActivity.java:-

```

package com.example.imgviewer;
import
androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
public class MainActivity extends AppCompatActivity
{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}

```

ImageViewerActivity.java :-

```

package com.example.imgviewer;

import androidx.appcompat.app.AppCompatActivity;

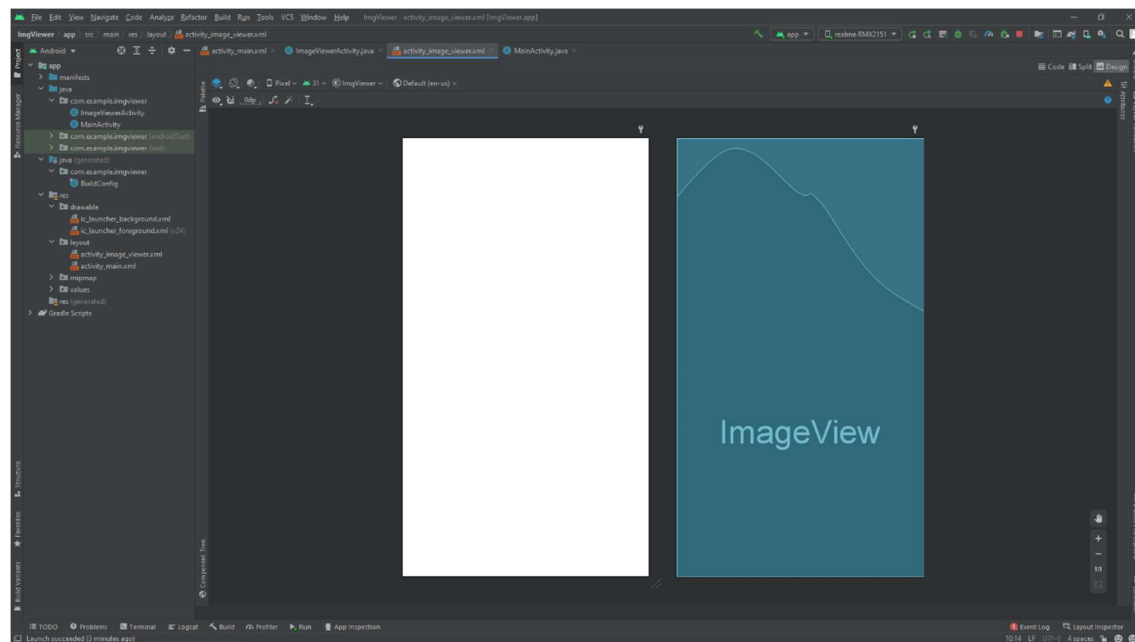
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.widget.ImageView;

public class ImageViewerActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_image_viewer);
        Intent intent = getIntent();
        Uri data = intent.getData();
        ImageView imageView = findViewById(R.id.image_viewer);
        imageView.setImageURI(data);
    }
}

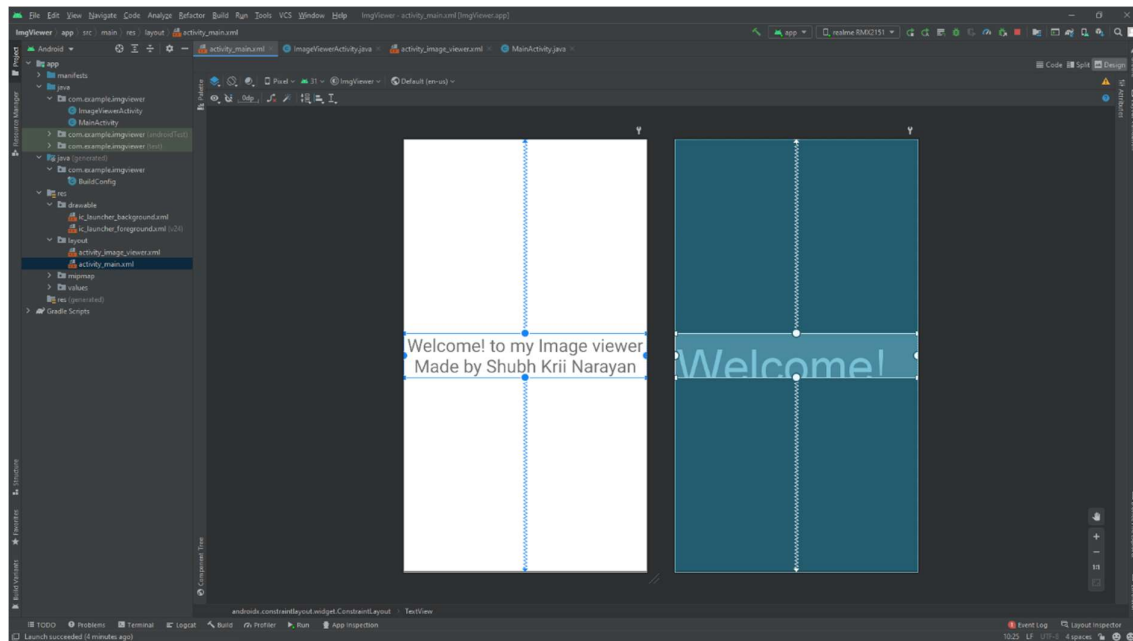
```

pp

Output1(design and blueprint):-



Output2(design and blueprint):-



Output of emulator:-

7:07

13.0 KB/S 4G 79% 

ImgViewer

Welcome! to my Image
viewer Made by Shubh Krii
Narayan



7:08

6.00 KB/S 4G 79% 

ImgViewer



7:08

8.00 KB/S 4G 79% 

ImgViewer



7:08

7.00 KB/S VoLTE 4G 79% 

ImgViewer

