ACTIVITY_MAIN.XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<GridView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/gridview"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:columnWidth="120dp"
    android:numColumns="3"
    android:verticalSpacing="10dp"
    android:horizontalSpacing="10dp"
    android:stretchMode="columnWidth"
    android:gravity="center"
    />
```

MAINACTIVITY.JAVA

```java
package com.example.imageview;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;

import android.view.View;
import android.widget.AdapterView;
import android.widget.GridView;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        GridView gridview = (GridView)
                findViewById(R.id.gridview);
        gridview.setAdapter(new
                ImageAdapter(this));

        gridview.setOnItemClickListener(new

AdapterView.OnItemClickListener() {
                                            public void
onItemClick(AdapterView<?>

parent,

View v, int

position, long id){
// Send intent toSingleViewActivity

                                                Intent i = new

Intent(getApplicationContext(),

SingleViewActivity.class);
```

```
                                // Pass image index
                                                            i.putExtra("id",
position);
                                                            startActivity(i);
                                    }
                            });
        }
}
```

ImageAdaptor.java

```java
package com.example.imageview;

import android.content.Context;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.GridView;
import android.widget.ImageView;

class ImageAdapter extends BaseAdapter {
    private Context mContext;
    // Constructor
    public ImageAdapter(Context c) {
        mContext = c;
    }

    public int getCount() {
        return picIds.length;
    }

    public Object getItem(int position) {
        return null;
    }
    public long getItemId(int position) {


        return 0;
    }

    // create a new ImageView for each itemreferenced by the Adapter
    public View getView(int position, View
            convertView, ViewGroup parent) {
        ImageView imageView;

        if (convertView == null) {
            imageView = new ImageView(mContext);
            imageView.setLayoutParams(new
                    GridView.LayoutParams(85, 85));

            imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
            imageView.setPadding(8, 8, 8, 8);
        }
        else
        {
            imageView = (ImageView) convertView;
        }
```

```java
        imageView.setImageResource(picIds[position]);
        return imageView;


    }

    // Keep all Images in array
    public Integer[] picIds = {
            R.drawable.sample2,
            R.drawable.sample3,
            R.drawable.sample4,
            R.drawable.sample5,
            R.drawable.sample6,
            R.drawable.sample7,
            R.drawable.sample0,
            R.drawable.sample1,
            R.drawable.sample2,
            R.drawable.sample3,
            R.drawable.sample4,
            R.drawable.sample5,
            R.drawable.sample6,
            R.drawable.sample7,
            R.drawable.sample0,
            R.drawable.sample1,
            R.drawable.sample2,
            R.drawable.sample3,
            R.drawable.sample4,
            R.drawable.sample5,
            R.drawable.sample6,
            R.drawable.sample7,


            R.drawable.sample0, R.drawable.sample1
    };
}
```

Activity_single_view

```xml
<?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="match_parent"
    android:orientation="vertical" >

    <ImageView android:id="@+id/SingleView"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"/>

</LinearLayout>
```

Activity_single_view.java

```java
package com.example.imageview;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.ImageView;

public class SingleViewActivity extends Activity {
    @Override
    public void onCreate(Bundle
                            savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_single_view);

// Get intent data
        Intent i = getIntent();

// Selected image id
        int position = i.getExtras().getInt("id");
        ImageAdapter imageAdapter = new
                ImageAdapter(this);



        ImageView imageView = (ImageView)
                findViewById(R.id.SingleView);

        imageView.setImageResource(imageAdapter.picIds[position]);
    }
}
```