

Project 3\simpleGalleryApp.txt

``Project 3 : Image gallery App``

1. 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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <RadioGroup
        android:id="@+id/radioGroup2"
        android:layout_width="180dp"
        android:layout_height="220dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.121"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.499">

        <RadioButton
            android:id="@+id/radioButtonImg1"
            android:layout_width="123dp"
            android:layout_height="37dp"
            android:text="Image 1"
            android:textSize="16sp"
            android:textStyle="bold" />

        <RadioButton
            android:id="@+id/radioButtonImg2"
            android:layout_width="123dp"
            android:layout_height="33dp"
            android:text="Image 2"
            android:textSize="16sp"
            android:textStyle="bold" />

        <RadioButton
            android:id="@+id/radioButtonImg3"
            android:layout_width="124dp"
            android:layout_height="38dp"
            android:text="Image 3"
            android:textSize="16sp"
            android:textStyle="bold" />

        <RadioButton
            android:id="@+id/radioButtonImg4"
            android:layout_width="126dp"
            android:layout_height="37dp"
            android:text="Image 4"
            android:textSize="16sp"
            android:textStyle="bold" />

    </RadioGroup>

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

```
<RadioButton
    android:id="@+id/radioButtonImg5"
    android:layout_width="127dp"
    android:layout_height="37dp"
    android:text="Image 5"
    android:textSize="16sp"
    android:textStyle="bold" />
```

```
<RadioButton
    android:id="@+id/radioButtonImg6"
    android:layout_width="121dp"
    android:layout_height="34dp"
    android:text="Image 6"
    android:textSize="16sp"
    android:textStyle="bold" />
```

```
</RadioGroup>
```

```
<CheckBox
    android:id="@+id/checkBox"
    android:layout_width="170dp"
    android:layout_height="35dp"
    android:text="Show Image"
    android:textSize="20sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.933"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.477" />
```

```
<Button
    android:id="@+id/buttonOk"
    android:layout_width="105dp"
    android:layout_height="55dp"
    android:background="@drawable/btn_bg"
    android:onClick="show_img"
    android:text="Ok"
    android:textSize="24sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.787"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.581" />
```

```
<ImageView
    android:id="@+id/image6"
    android:layout_width="118dp"
    android:layout_height="107dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.986"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.26"
    app:srcCompat="@drawable/img6"
```

```
tools:srcCompat="@drawable/img6" />
```

```
<ImageView
    android:id="@+id/image3"
    android:layout_width="115dp"
    android:layout_height="118dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.543"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.099"
    app:srcCompat="@drawable/img3"
    tools:srcCompat="@drawable/img2" />
```

```
<ImageView
    android:id="@+id/image2"
    android:layout_width="117dp"
    android:layout_height="118dp"
    android:layout_marginEnd="4dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.099"
    app:srcCompat="@drawable/img2"
    tools:srcCompat="@drawable/img3" />
```

```
<ImageView
    android:id="@+id/image1"
    android:layout_width="139dp"
    android:layout_height="133dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.044"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.094"
    app:srcCompat="@drawable/img1"
    tools:srcCompat="@drawable/img1" />
```

```
<ImageView
    android:id="@+id/image4"
    android:layout_width="136dp"
    android:layout_height="107dp"
    android:layout_marginBottom="568dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.042"
    app:layout_constraintStart_toStartOf="parent"
    app:srcCompat="@drawable/img4"
    tools:srcCompat="@drawable/img4" />
```

```
<ImageView
    android:id="@+id/image5"
    android:layout_width="115dp"
    android:layout_height="106dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.55"
    app:layout_constraintStart_toStartOf="parent"
```

```

        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.261"
        app:srcCompat="@drawable/img5"
        tools:srcCompat="@drawable/img5" />

<ImageView
    android:id="@+id/OutputImage"
    android:layout_width="422dp"
    android:layout_height="286dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.545"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/image2"
    app:layout_constraintVertical_bias="0.948"
    tools:srcCompat="@tools:sample/avatars" />

<LinearLayout
    android:layout_width="429dp"
    android:layout_height="62dp"
    android:layout_marginStart="1dp"
    android:layout_marginEnd="1dp"
    android:background="#5CC4F2"
    android:gravity="center"
    android:orientation="vertical"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.0">

    <TextView
        android:id="@+id/textView"
        android:layout_width="413dp"
        android:layout_height="46dp"
        android:fontFamily="sans-serif-smallcaps"
        android:foregroundGravity="center"
        android:gravity="center"
        android:text="Bike Gellery"
        android:textColor="#000000"
        android:textSize="34sp"
        android:textStyle="bold" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

```

2. MainActivity.java:

```

package com.example.imagegellery;

import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.ImageView;
import android.widget.RadioButton;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;

```

```

import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
            return insets;
        });
    }

    public void show_img(View v){
        ImageView i1 = findViewById(R.id.image1);
        ImageView i2 = findViewById(R.id.image2);
        ImageView i3 = findViewById(R.id.image3);
        ImageView i4 = findViewById(R.id.image4);
        ImageView i5 = findViewById(R.id.image5);
        ImageView i6 = findViewById(R.id.image6);

        ImageView outImage = findViewById(R.id.OutputImage);

        RadioButton r1 = findViewById(R.id.radioButtonImg1);
        RadioButton r2 = findViewById(R.id.radioButtonImg2);
        RadioButton r3 = findViewById(R.id.radioButtonImg3);
        RadioButton r4 = findViewById(R.id.radioButtonImg4);
        RadioButton r5 = findViewById(R.id.radioButtonImg5);
        RadioButton r6 = findViewById(R.id.radioButtonImg6);

        CheckBox c1 = findViewById(R.id.checkBox);

        if(r1.isChecked()){
            outImage.setImageDrawable(i1.getDrawable());
        }
        else if (r2.isChecked()){
            outImage.setImageDrawable(i2.getDrawable());
        }
        else if (r3.isChecked()){
            outImage.setImageDrawable(i3.getDrawable());
        }
        else if (r4.isChecked()){
            outImage.setImageDrawable(i4.getDrawable());
        }
        else if (r5.isChecked()){
            outImage.setImageDrawable(i5.getDrawable());
        }
        else if (r6.isChecked()){
            outImage.setImageDrawable(i6.getDrawable());
        }
        else {
            Toast.makeText(this,"Select an Image.",Toast.LENGTH_LONG).show();
        }

        if (c1.isChecked()){
            outImage.setVisibility(View.VISIBLE);
        }
    }
}

```

```
    }  
    else{  
        Toast.makeText(this,"Please Check Show Image.",Toast.LENGTH_LONG).show();  
        outImage.setVisibility(View.INVISIBLE);  
    }  
}  
}
```