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``Project 3 : Image gallery App``
1. Activity main.xml :
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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" />
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<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"
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tools:srcCompat="@drawable/img6" />
<ImageView</pre>
    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</pre>
    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</pre>
    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"
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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;
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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);
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}
else{
    Toast.makeText(this,"Please Check Show Image.",Toast.LENGTH_LONG).show();
    outImage.setVisibility(View.INVISIBLE);
}
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