MainActivity.java

```java
package com.example.animation;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.Button;
import android.widget.ImageView;
public class MainActivity extends AppCompatActivity {
    private Button zoominButton;
    private Button zoomoutButton;
    private Button rotateButton;
    private Button bounceButton;
    private ImageView imageView;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        zoominButton = findViewById(R.id.zoominButton);
        zoomoutButton = findViewById(R.id.zoomoutButton);
        rotateButton = findViewById(R.id.rotateButton);
        bounceButton = findViewById(R.id.bounceButton);
        imageView = findViewById(R.id.imageView);

        bounceButton.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View view) {
                imageView.setVisibility(view.VISIBLE);
                Animation animation =
AnimationUtils.loadAnimation(MainActivity.this,R.anim.boun
ce);
                imageView.startAnimation(animation);
            }
        });
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/and
roid"
    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">

    <Button
        android:id="@+id/bounceButton"
        android:layout_width="152dp"
        android:layout_height="55dp"
        android:background="@color/white"
        android:hapticFeedbackEnabled="false"
        android:text="@string/bounce"
        android:textColor="#039BE5"
        android:textSize="20sp"

app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.868"
        app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.868" />

    <Button
        android:id="@+id/zoomoutButton"
        android:layout_width="152dp"
        android:layout_height="55dp"
        android:background="@color/white"
        android:hapticFeedbackEnabled="false"
        android:text="@string/zoom_out"
        android:textColor="#039BE5"
        android:textSize="20sp"
```

```java
        zoominButton.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View view) {
                imageView.setVisibility(view.VISIBLE);
                Animation animation =
AnimationUtils.loadAnimation(MainActivity.this,R.anim.zoom
out);
                imageView.startAnimation(animation);
            }
        });
        zoomoutButton.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View view) {
                imageView.setVisibility(view.VISIBLE);
                Animation animation =
AnimationUtils.loadAnimation(MainActivity.this,R.anim.zoom
in);
                imageView.startAnimation(animation);
            }
        });
        rotateButton.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View view) {
                imageView.setVisibility(view.VISIBLE);
                Animation animation =
AnimationUtils.loadAnimation(MainActivity.this,R.anim.rota
te);
                imageView.startAnimation(animation);
            }
        });
    }
}
```

```xml
app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.868"
        app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.715" />

    <Button
        android:id="@+id/rotateButton"
        android:layout_width="152dp"
        android:layout_height="55dp"
        android:background="@color/white"
        android:hapticFeedbackEnabled="false"
        android:text="@string/rotate"
        android:textColor="#039BE5"
        android:textSize="20sp"

app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.131"
        app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.868" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:fontFamily="cursive"
        android:paddingTop="10dp"
        android:text="@string/animation_project"
        android:textAlignment="center"
        android:textSize="38sp"
        android:textStyle="bold"
```

String.xml

```xml
<resources>
    <string name="app_name">Animation</string>
    <string name="animation_project">Animation
Project</string>
    <string name="drs">drS</string>
    <string name="zoom_in">Zoom In</string>
    <string name="zoom_out">Zoom out</string>
    <string name="rotate">Rotate</string>
    <string name="bounce">Bounce</string>
</resources>
```

AndroidManifest.xml

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

    <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.Animation">
        <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>
```

```xml
        app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintHorizontal_bias="0.0"
            app:layout_constraintLeft_toLeftOf="parent"
            app:layout_constraintRight_toRightOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.05" />

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="269dp"
        android:layout_height="464dp"
        android:contentDescription="@string/drs"
        android:src="@drawable/drstrange"
        android:visibility="visible"

app:layout_constraintBottom_toTopOf="@+id/bounceButto
n"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.538"
        tools:ignore="ImageContrastCheck" />

    <Button
        android:id="@+id/zoominButton"
        android:layout_width="152dp"
        android:layout_height="55dp"
        android:background="@color/white"
        android:hapticFeedbackEnabled="false"
        android:text="@string/zoom_in"
        android:textColor="#039BE5"
        android:textSize="20sp"

app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.131"
        app:layout_constraintStart_toStartOf="parent"
```
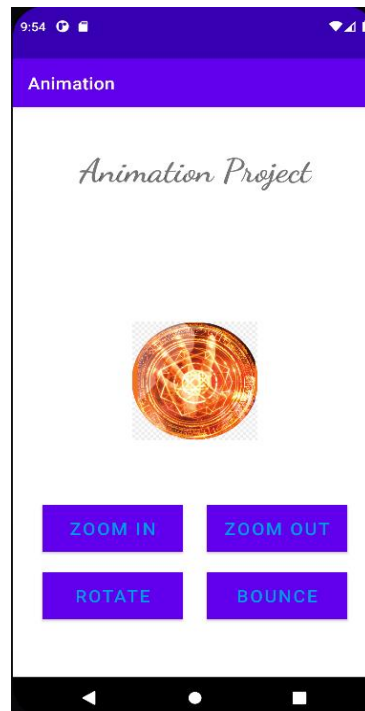
```
        </application>                                    app:layout_constraintTop_toBottomOf="@+id/textView"
                                                                   app:layout_constraintVertical_bias="0.715" />
</manifest>                                           </androidx.constraintlayout.widget.ConstraintLayout>
```
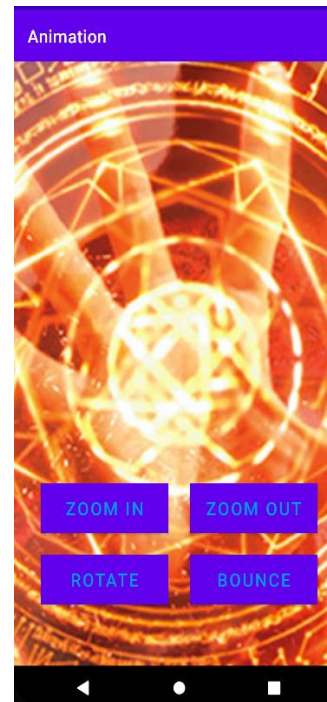
Output

Zoom In

Zoom Out

Rotate

Bounce