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SECTION:5CSE-4

MEDIA PLAYER APPLICATION

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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:theme="@android:style/Theme.Black"
    android:background="@drawable/th"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="150dp"
        android:layout_height="48dp"
        android:text="Music World"
        android:textColor="@android:color/holo_blue_bright"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.455"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.044" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Start"
        android:textColorHighlight="#E91E63"
        android:theme="@android:style/Theme.Black"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.12"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.597"

app:shapeAppearanceOverlay="@android:style/Widget.DeviceDefault.Light.Media
RouteButton" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Pause"
        android:textColorHighlight="#00BCD4"
        android:theme="@android:style/Theme.Black"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```

        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.597" />

<Button
    android:id="@+id/button3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Stop"
    android:textColorHighlight="#673AB7"
    android:theme="@android:style/Theme.Black"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.835"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.597" />

<ImageView
    android:id="@+id/imageView"
    android:layout_width="369dp"
    android:layout_height="123dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.298"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.364"
    app:srcCompat="@drawable/blue" />

<androidx.constraintlayout.widget.Barrier
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    app:barrierDirection="top"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent" />

<View
    android:id="@+id/divider"
    android:layout_width="409dp"
    android:layout_height="1dp"
    android:background="?android:attr/listDivider"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

2.MainActivity.java:

```

package com.example.media;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;

```

```

import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    Button bt1, bt2, bt3;
    MediaPlayer mediaPlayer;
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        bt1=findViewById(R.id.button);
        bt2=findViewById(R.id.button2);
        bt3=findViewById(R.id.button3);
        bt1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if (mediaPlayer==null){

mediaPlayer=MediaPlayer.create(MainActivity.this,R.raw.happy);
                mediaPlayer.setOnCompletionListener(new
MediaPlayer.OnCompletionListener() {
                    @Override
                    public void onCompletion(MediaPlayer mediaPlayer) {
                        stopPlayer();
                    }
                });
                mediaPlayer.start();
            }
        });
        bt2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if (mediaPlayer!=null){
                    mediaPlayer.pause();
                }
            }
        });
        bt3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                stopPlayer();
            }
        });
    }
    private void stopPlayer(){
        if (mediaPlayer!=null){
            mediaPlayer.release();
            mediaPlayer=null;
        }

    }

    @Override
    protected void onStop() {
        super.onStop();
        stopPlayer();
    }
}

```

3.output:

