



PRESIDENCY UNIVERSITY

Mobile application development(CSE 3075)

20211CSE0223

SNEHA.R

5CSE4

Experiment 10: Music player

1.Design (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:background="@drawable/img_3"
tools:context=".MainActivity">

    <Button
        android:id="@+id/button"
        android:layout_width="148dp"
        android:layout_height="0dp"
        android:layout_marginBottom="224dp"
        android:backgroundTint="@color/white"
        android:text="STOP"
        android:textColor="#073B7A"
        android:textSize="10sp"
        android:textStyle="bold"
        app:icon="@drawable/img_2"
        app:iconSize="25dp"
        app:iconTint="@color/black"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="@+id/button4"
        app:layout_constraintStart_toStartOf="@+id/button4"
        app:layout_constraintTop_toBottomOf="@+id/button4" />

    <Button
        android:id="@+id/button4"
        android:layout_width="147dp"
        android:layout_height="0dp"
        android:layout_marginBottom="77dp"
        android:backgroundTint="@color/white"
```

```

        android:text="PAUSE"
        android:textColor="#073B7A"
        android:textSize="10sp"
        android:textStyle="bold"
        app:icon="@drawable/pause"
        app:iconSize="25dp"
        app:iconTint="@color/black"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="@+id/button3"
        app:layout_constraintStart_toStartOf="@+id/button3"
        app:layout_constraintTop_toBottomOf="@+id/button3" />

<Button
    android:id="@+id/button3"
    android:layout_width="150dp"
    android:layout_height="0dp"
    android:layout_marginBottom="77dp"
    android:backgroundTint="@color/white"
    android:text="START"
    android:textColor="#073B7A"
    android:textSize="10sp"
    android:textStyle="bold"
    app:icon="@drawable/img_1"
    app:iconSize="25dp"
    app:iconTint="@color/black"
    app:layout_constraintBottom_toTopOf="@+id/button4"
    app:layout_constraintEnd_toEndOf="@+id/textView"
    app:layout_constraintStart_toStartOf="@+id/textView"
    app:layout_constraintTop_toBottomOf="@+id/textView" />

<TextView
    android:id="@+id/textView"
    android:layout_width="162dp"
    android:layout_height="0dp"
    android:layout_marginStart="27dp"
    android:layout_marginTop="16dp"
    android:layout_marginBottom="75dp"
    android:fontFamily="cursive"
    android:foregroundGravity="center"
    android:gravity="center"
    android:text="Music player"
    android:textColor="#830BAF"
    android:textSize="25sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/button3"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

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

2.JAVA File (MainActivity.java)

```

package com.example.musicplayer_0223;

import androidx.appcompat.app.AppCompatActivity;

import android.media.MediaPlayer;
import android.os.Bundle;

```

```

import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    Button button3,button4,button;
    MediaPlayer mediaPlayer;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        button=findViewById(R.id.button);
        button3=findViewById(R.id.button3);
        button4=findViewById(R.id.button4);
        button3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(mediaPlayer==null) {
                    mediaPlayer =
MediaPlayer.create(MainActivity.this,R.raw.sample);
                    mediaPlayer.setOnCompletionListener(new
MediaPlayer.OnCompletionListener() {
                        @Override
                        public void onCompletion(MediaPlayer mp) {

                            stopplayer();
                        }
                    });
                } mediaPlayer.start();
            }
        });

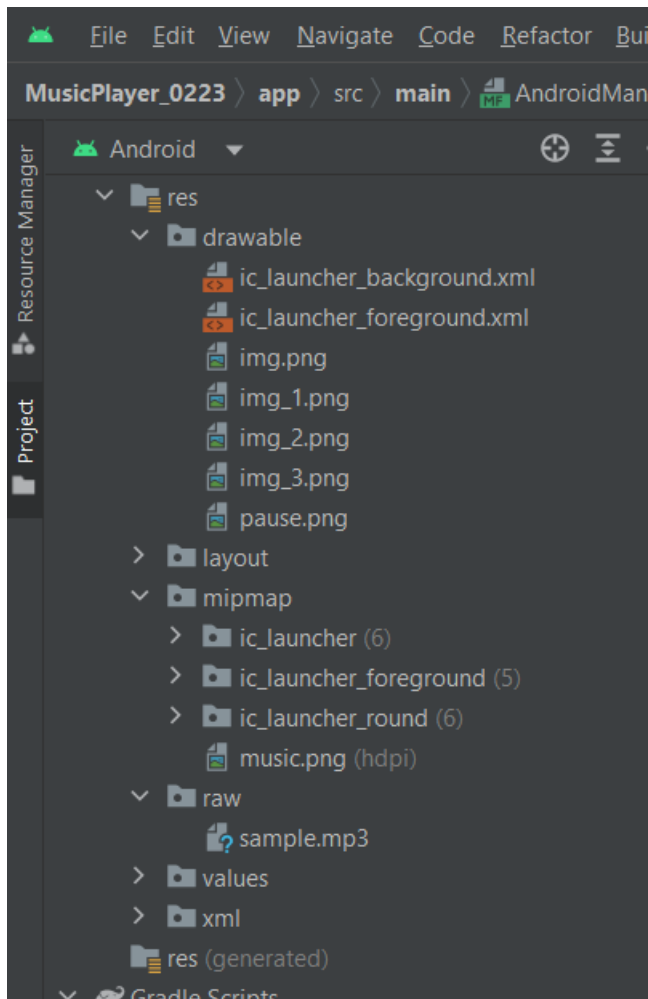
        button4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(mediaPlayer!=null) {
                    mediaPlayer.pause();
                }
            }
        });
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                stopplayer();
            }
        });
    }
    private void stopplayer() {
        if (mediaPlayer != null) {
            mediaPlayer.release();//release the system resources
            mediaPlayer = null;
        }
    }

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

```

```
}  
}
```



AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools">  
  
    <application  
        android:allowBackup="true"  
        android:dataExtractionRules="@xml/data_extraction_rules"  
        android:fullBackupContent="@xml/backup_rules"  
        android:icon="@mipmap/ic_launcher"  
        android:label="@string/app_name"  
        android:roundIcon="@mipmap/ic_launcher_round"  
        android:supportsRtl="true"  
        android:theme="@style/Theme.MusicPlayer_0223"  
        tools:targetApi="31">  
        <activity  
            android:name=".MainActivity"  
            android:exported="true"  
            android:icon="@mipmap/music">  
            <intent-filter>  
                <action android:name="android.intent.action.MAIN" />
```

```
        <category android:name="android.intent.category.LAUNCHER"
/>
        </intent-filter>
    </activity>
</application>
</manifest>
```

3. Output in the emulator

