Layout Code:

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout 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/background"  
 android:padding="20dp"  
 android:orientation="vertical"  
 tools:context=".MainActivity"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:paddingTop="15dp"  
 android:padding="10dp"**>  
  
 <**com.mikhaellopez.circularimageview.CircularImageView  
 android:id="@+id/image"  
 android:layout\_width="230dp"  
 android:layout\_height="230dp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="5dp"  
 android:src="@drawable/album\_art"  
 app:civ\_border\_color\_end="#00bfa5"  
 app:civ\_border\_color\_start="#d81b60"  
 app:civ\_border\_width="12dp"  
 app:civ\_shadow="true"  
 app:civ\_shadow\_color="#070707"  
 app:civ\_shadow\_gravity="center"  
 android:layout\_marginStart="25dp"**/>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Up"  
 android:textColor="#00bfa5"  
 android:textStyle="bold"  
 android:layout\_gravity="center"**/>  
 <**SeekBar  
 android:id="@+id/volume"  
 android:layout\_width="170dp"  
 android:layout\_height="170dp"  
 android:rotation="270"  
 android:layout\_gravity="center"**/>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Down"  
 android:textColor="#00bfa5"  
 android:textStyle="bold"  
 android:layout\_gravity="center"**/>  
 </**LinearLayout**>  
  
  
 </**LinearLayout**>  
  
 <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:padding="15dp"  
 android:layout\_gravity="center"**>  
 <**ImageView  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:id="@+id/rew"  
 android:layout\_marginTop="40dp"  
 android:src="@drawable/ic\_rewind\_24"**/>  
 <**ImageView  
 android:layout\_width="8dp"  
 android:layout\_height="40dp"  
 android:layout\_marginTop="40dp"**/>  
 <**ImageView  
 android:id="@+id/pause"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_marginTop="40dp"  
 android:background="@drawable/pause"  
 android:backgroundTint="#ff5c8d"**/>  
 <**ImageView  
 android:layout\_width="10dp"  
 android:layout\_height="40dp"  
 android:layout\_marginTop="40dp"**/>  
 <**ImageView  
 android:layout\_width="55dp"  
 android:layout\_height="55dp"  
 android:background="@drawable/play"  
 android:layout\_marginTop="30dp"  
 android:id="@+id/play"  
 android:backgroundTint="#00DFC4"**/>  
 <**ImageView  
 android:layout\_width="10dp"  
 android:layout\_height="40dp"  
 android:layout\_marginTop="40dp"**/>  
 <**ImageView  
 android:id="@+id/stop"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_marginTop="40dp"  
 android:background="@drawable/stop"  
 android:backgroundTint="#ff5c8d"**/>  
 <**ImageView  
 android:layout\_width="8dp"  
 android:layout\_height="40dp"  
 android:layout\_marginTop="40dp"**/>  
 <**ImageView  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:id="@+id/ff"  
 android:layout\_marginTop="40dp"  
 android:src="@drawable/ic\_forward\_24"**/>  
 </**LinearLayout**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:padding="20dp"**>  
  
 <**TextView  
 android:id="@+id/position"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="00:00"  
 android:textColor="@color/white"  
 android:textStyle="bold"** />  
  
 <**SeekBar  
 android:id="@+id/seekBar"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"** />  
  
 <**TextView  
 android:id="@+id/duration"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="00:00"  
 android:textColor="@color/white"  
 android:textStyle="bold"** />  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:layout\_gravity="center"**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Now at: "  
 android:textColor="#FFDAC6"  
 android:textStyle="bold"**/>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text=""  
 android:textColor="#FFDAC6"  
 android:id="@+id/now"  
 android:textStyle="bold"**/>  
 </**LinearLayout**>  
</**LinearLayout**>

Java Code:

**package** com.example.lab14;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.annotation.SuppressLint;  
**import** android.content.Context;  
**import** android.media.AudioManager;  
**import** android.media.MediaPlayer;  
**import** android.os.Bundle;  
**import** android.os.Handler;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ImageView;  
**import** android.widget.SeekBar;  
**import** android.widget.TextView;  
  
**import** java.util.concurrent.TimeUnit;  
  
**public class** MainActivity **extends** AppCompatActivity{  
  
 MediaPlayer **mediaPlayer**;  
 AudioManager **audioManager**;  
 TextView **position**, **time**, **now**, **m1**,**m2**;  
 SeekBar **seekBar**, **volume**;  
 ImageView **play**, **pause**, **stop**,**rew**, **ff**;  
  
 **int pausePosition**;  
 Handler **handler** = **new** Handler();  
 Runnable **runnable**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **play** = (ImageView) findViewById(R.id.***play***);  
 **pause** =(ImageView) findViewById(R.id.***pause***);  
 **stop** = (ImageView) findViewById(R.id.***stop***);  
 **rew** = (ImageView)findViewById(R.id.***rew***);  
 **ff** = (ImageView)findViewById(R.id.***ff***);  
 **position** = (TextView)findViewById(R.id.***position***);  
 **time** = (TextView)findViewById(R.id.***duration***);  
 **now** = (TextView)findViewById(R.id.***now***);  
 **volume** = (SeekBar)findViewById(R.id.***volume***);  
 **seekBar** = (SeekBar)findViewById(R.id.***seekBar***);  
  
 **audioManager** = (AudioManager)getSystemService(Context.***AUDIO\_SERVICE***);  
 **int** maxVol = **audioManager**.getStreamMaxVolume(AudioManager.***STREAM\_MUSIC***);  
 **int** curVol = **audioManager**.getStreamVolume(AudioManager.***STREAM\_MUSIC***);  
 **volume**.setOnSeekBarChangeListener(**new** SeekBar.OnSeekBarChangeListener() {  
 @Override  
 **public void** onProgressChanged(SeekBar seekBar, **int** progress, **boolean** fromUser) {  
 **audioManager**.setStreamVolume(AudioManager.***STREAM\_MUSIC***,progress,0);  
 }  
  
 @Override  
 **public void** onStartTrackingTouch(SeekBar seekBar) {  
  
 }  
  
 @Override  
 **public void** onStopTrackingTouch(SeekBar seekBar) {  
  
 }  
 });  
 **play**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **if**(**mediaPlayer**==**null**){  
 **mediaPlayer** = MediaPlayer.*create*(getApplicationContext(),R.raw.***ragtime\_proud\_music\_preview***);  
 **mediaPlayer**.start();  
 **seekBar**.setMax(**mediaPlayer**.getDuration());  
 **handler**.postDelayed(**runnable**,0);  
 }**else if**(!**mediaPlayer**.isPlaying()){  
 **mediaPlayer**.seekTo(**pausePosition**);  
 **mediaPlayer**.start();  
 **seekBar**.setMax(**mediaPlayer**.getDuration());  
 **handler**.postDelayed(**runnable**,0);  
 }  
 **now**.setText(convertFormat(**mediaPlayer**.getCurrentPosition()));  
 }  
 });  
  
 **pause**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **if**(**mediaPlayer** != **null**){  
 **mediaPlayer**.pause();  
 **pausePosition** = **mediaPlayer**.getCurrentPosition();  
 **handler**.removeCallbacks(**runnable**);  
 }  
 **now**.setText(convertFormat(**mediaPlayer**.getCurrentPosition()));  
 }  
 });  
  
 **stop**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **if**(**mediaPlayer**!=**null**) {  
 **mediaPlayer**.stop();  
 **pausePosition** = **mediaPlayer**.getCurrentPosition();  
 **handler**.removeCallbacks(**runnable**);  
 **mediaPlayer** = **null**;  
 }  
 **now**.setText(convertFormat(**mediaPlayer**.getCurrentPosition()));  
 }  
 });  
  
 **rew**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **int** current = **mediaPlayer**.getCurrentPosition();  
 **if**(**mediaPlayer**.isPlaying() && current > 10000){  
 current = current - 10000;  
 **position**.setText(convertFormat(current));  
 **mediaPlayer**.seekTo(current);  
 }  
 **now**.setText(convertFormat(**mediaPlayer**.getCurrentPosition()));  
 }  
 });  
  
 **ff**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **int** currnet = **mediaPlayer**.getCurrentPosition();  
 **int** duration = **mediaPlayer**.getDuration();  
 **if**(**mediaPlayer**.isPlaying() && duration != currnet){  
 currnet = currnet + 30000;  
 **position**.setText((convertFormat(currnet)));  
 **mediaPlayer**.seekTo(currnet);  
 }  
 **now**.setText(convertFormat(**mediaPlayer**.getCurrentPosition()));  
 }  
 });  
  
 **mediaPlayer** = MediaPlayer.*create*(getApplicationContext(),R.raw.***ragtime\_proud\_music\_preview***);  
 **runnable** = **new** Runnable() {  
 @Override  
 **public void** run() {  
 **seekBar**.setProgress(**mediaPlayer**.getCurrentPosition());  
 **handler**.postDelayed(**this**,100);  
 }  
 };  
  
 **int** duration = **mediaPlayer**.getDuration();  
 String sDuration = convertFormat(duration);  
 **time**.setText(sDuration);  
 **seekBar**.setOnSeekBarChangeListener(**new** SeekBar.OnSeekBarChangeListener() {  
 @Override  
 **public void** onProgressChanged(SeekBar seekBar, **int** progress, **boolean** fromUser) {  
 **if**(fromUser){  
 **mediaPlayer**.seekTo(progress);  
 }  
 **position**.setText(convertFormat(**mediaPlayer**.getCurrentPosition()));  
 }  
  
 @Override  
 **public void** onStartTrackingTouch(SeekBar seekBar) {  
  
 }  
  
 @Override  
 **public void** onStopTrackingTouch(SeekBar seekBar) {  
  
 }  
 });  
 **mediaPlayer**.setOnCompletionListener(**new** MediaPlayer.OnCompletionListener() {  
 @Override  
 **public void** onCompletion(MediaPlayer mp) {  
 **mediaPlayer**.seekTo(0);  
 }  
 });  
 }  
  
 @SuppressLint(**"DefaultLocale"**)  
 **private** String convertFormat(**int** duration) {  
 **return** String.*format*(**"%02d:%02d"**,  
 TimeUnit.***MILLISECONDS***.toMinutes(duration),  
 TimeUnit.***MILLISECONDS***.toSeconds(duration) -  
 TimeUnit.***MINUTES***.toSeconds(TimeUnit.***MILLISECONDS***.toMinutes(duration)));  
 }  
}

Manifest Code:

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.lab14"**>  
  
 <**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.Lab14"**>  
 <**activity android:name=".MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

Screenshots:

 