package com.example.sairamkrishna.myapplication;

import android.app.Activity;

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 android.widget.Toast;

import java.util.concurrent.TimeUnit;

public class MainActivity extends Activity {

private Button b1,b2,b3,b4;

private ImageView iv;

private MediaPlayer mediaPlayer;

private double startTime = 0;

private double finalTime = 0;

private Handler myHandler = new Handler();;

private int forwardTime = 5000;

private int backwardTime = 5000;

private SeekBar seekbar;

private TextView tx1,tx2,tx3;

public static int oneTimeOnly = 0;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1 = (Button) findViewById(R.id.button);

b2 = (Button) findViewById(R.id.button2);

b3 = (Button)findViewById(R.id.button3);

b4 = (Button)findViewById(R.id.button4);

iv = (ImageView)findViewById(R.id.imageView);

tx1 = (TextView)findViewById(R.id.textView2);

tx2 = (TextView)findViewById(R.id.textView3);

tx3 = (TextView)findViewById(R.id.textView4);

tx3.setText("Song.mp3");

mediaPlayer = MediaPlayer.create(this, R.raw.song);

seekbar = (SeekBar)findViewById(R.id.seekBar);

seekbar.setClickable(false);

b2.setEnabled(false);

b3.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Toast.makeText(getApplicationContext(), "Playing

sound",Toast.LENGTH\_SHORT).show();

mediaPlayer.start();

finalTime = mediaPlayer.getDuration();

startTime = mediaPlayer.getCurrentPosition();

if (oneTimeOnly == 0) {

seekbar.setMax((int) finalTime);

oneTimeOnly = 1;

}

tx2.setText(String.format("%d min, %d sec",

TimeUnit.MILLISECONDS.toMinutes((long) finalTime),

TimeUnit.MILLISECONDS.toSeconds((long) finalTime) -

TimeUnit.MINUTES.toSeconds(TimeUnit.MILLISECONDS.toMinutes((long)

finalTime)))

);

tx1.setText(String.format("%d min, %d sec",

TimeUnit.MILLISECONDS.toMinutes((long) startTime),

TimeUnit.MILLISECONDS.toSeconds((long) startTime) -

TimeUnit.MINUTES.toSeconds(TimeUnit.MILLISECONDS.toMinutes((long)

startTime)))

);

seekbar.setProgress((int)startTime);

myHandler.postDelayed(UpdateSongTime,100);

b2.setEnabled(true);

b3.setEnabled(false);

}

});

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Toast.makeText(getApplicationContext(), "Pausing

sound",Toast.LENGTH\_SHORT).show();

mediaPlayer.pause();

b2.setEnabled(false);

b3.setEnabled(true);

}

});

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

int temp = (int)startTime;

if((temp+forwardTime)<=finalTime){

startTime = startTime + forwardTime;

mediaPlayer.seekTo((int) startTime);

Toast.makeText(getApplicationContext(),"You have Jumped forward 5

seconds",Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(),"Cannot jump forward 5

seconds",Toast.LENGTH\_SHORT).show();

}

}

});

b4.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

int temp = (int)startTime;

if((temp-backwardTime)>0){

startTime = startTime - backwardTime;

mediaPlayer.seekTo((int) startTime);

Toast.makeText(getApplicationContext(),"You have Jumped backward 5

seconds",Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(),"Cannot jump backward 5

seconds",Toast.LENGTH\_SHORT).show();

}

}

});

}

private Runnable UpdateSongTime = new Runnable() {

public void run() {

startTime = mediaPlayer.getCurrentPosition();

tx1.setText(String.format("%d min, %d sec",

TimeUnit.MILLISECONDS.toMinutes((long) startTime),

TimeUnit.MILLISECONDS.toSeconds((long) startTime) -

TimeUnit.MINUTES.toSeconds(TimeUnit.MILLISECONDS.

toMinutes((long) startTime)))

);

seekbar.setProgress((int)startTime);

myHandler.postDelayed(this, 100);

}

};

}

Following is the modified content of the xml **res/layout/activity\_main.xml**.

In the below code **abc**indicates the logo of tutorialspoint.com

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

android:paddingBottom="@dimen/activity\_vertical\_margin" tools:context=".MainActivity">

<TextView android:text="Music Palyer" android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/textview"

android:textSize="35dp"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Tutorials point"

android:id="@+id/textView"

android:layout\_below="@+id/textview"

android:layout\_centerHorizontal="true"

android:textColor="#ff7aff24"

android:textSize="35dp" />

<ImageView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/imageView"

android:layout\_below="@+id/textView"

android:layout\_centerHorizontal="true"

android:src="@drawable/abc"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/forward"

android:id="@+id/button"

android:layout\_alignParentBottom="true"

android:layout\_alignParentLeft="true"

android:layout\_alignParentStart="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/pause"

android:id="@+id/button2"

android:layout\_alignParentBottom="true"

android:layout\_alignLeft="@+id/imageView"

android:layout\_alignStart="@+id/imageView" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/back"

android:id="@+id/button3"

android:layout\_alignTop="@+id/button2"

android:layout\_toRightOf="@+id/button2"

android:layout\_toEndOf="@+id/button2" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/rewind"

android:id="@+id/button4"

android:layout\_alignTop="@+id/button3"

android:layout\_toRightOf="@+id/button3"

android:layout\_toEndOf="@+id/button3" />

<SeekBar

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/seekBar"

android:layout\_alignLeft="@+id/textview"

android:layout\_alignStart="@+id/textview"

android:layout\_alignRight="@+id/textview"

android:layout\_alignEnd="@+id/textview"

android:layout\_above="@+id/button" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceSmall"

android:text="Small Text"

android:id="@+id/textView2"

android:layout\_above="@+id/seekBar"

android:layout\_toLeftOf="@+id/textView"

android:layout\_toStartOf="@+id/textView" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceSmall"

android:text="Small Text"

android:id="@+id/textView3"

android:layout\_above="@+id/seekBar"

android:layout\_alignRight="@+id/button4"

android:layout\_alignEnd="@+id/button4" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceMedium"

android:text="Medium Text"

android:id="@+id/textView4"

android:layout\_alignBaseline="@+id/textView2"

android:layout\_alignBottom="@+id/textView2"

android:layout\_centerHorizontal="true" />

</RelativeLayout>