2.18 My Player

activityMain.java

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| package com.example.myplayer;  import android.media.MediaPlayer; import android.os.Bundle;  import com.google.android.material.floatingactionbutton.FloatingActionButton; import com.google.android.material.snackbar.Snackbar;  import androidx.appcompat.app.AppCompatActivity; import androidx.appcompat.widget.Toolbar;  import android.os.Handler; import android.view.View; import android.view.Menu; import android.view.MenuItem; 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 AppCompatActivity {   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;  private 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);   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 second", Toast.*LENGTH\_SHORT*).show();  }  else {  Toast.*makeText*(getApplicationContext(),"Cannot jump forward 5 second", Toast.*LENGTH\_SHORT*).show();  }  }  });   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);  }  });   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*("%/ 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);  }  });   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 Hace jumper backward 5 second", Toast.*LENGTH\_SHORT*).show();  }  else {  Toast.*makeText*(getApplicationContext(),"Cannot jump backward 5 second", Toast.*LENGTH\_SHORT*).show();  }  }  });  }   private Runnable UpdateSongTime = new Runnable() {  @Override  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);  }  }; } |

mainActivity.xml

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| <?xml version="1.0" encoding="utf-8"?> <RelativeLayout  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:paddingBottom="@dimen/activity\_vertical\_margin"  android:paddingTop="@dimen/activity\_vertical\_margin"  android:paddingRight="@dimen/activity\_horizontal\_margin"  android:paddingLeft="@dimen/activity\_horizontal\_margin"  tools:context=".MainActivity">   <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/textview"  android:layout\_alignParentTop="true"  android:layout\_centerHorizontal="true"  android:text="Music Player"  android:textSize="35dp"/>   <ImageView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/imageView"  android:src="@mipmap/ic\_launcher"  android:layout\_below="@+id/textview"  android:layout\_centerHorizontal="true"  android:layout\_marginTop="137dp"/>   <Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/button"  android:text="Fwd"  android:layout\_alignParentBottom="true"  android:layout\_alignRight="@+id/textView2"  android:layout\_alignEnd="@+id/textView2"/>   <Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/button2"  android:text="Pause"  android:layout\_alignParentBottom="true"  android:layout\_alignRight="@+id/imageView"  android:layout\_alignEnd="@+id/imageView"/>   <Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/button3"  android:text="Play"  android:layout\_below="@+id/seekBar"  android:layout\_alignRight="@+id/seekBar"  android:layout\_alignEnd="@+id/seekBar"/>  <Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/button4"  android:layout\_toEndOf="@+id/seekBar"  android:text="Rew"  android:layout\_alignTop="@+id/button3"  android:layout\_toRightOf="@+id/seekBar"/>   <SeekBar  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/seekBar"  android:layout\_above="@+id/button"  android:layout\_alignEnd="@+id/textview"  android:layout\_alignLeft="@+id/textview"  android:layout\_alignRight="@+id/textview"  android:layout\_alignStart="@+id/textview"/>   <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/textView2"  android:layout\_above="@+id/seekBar"  android:text="Small Text"  android:textAppearance="?android:attr/textAppearanceSmall"/>   <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/textView3"  android:layout\_above="@+id/seekBar"  android:layout\_alignEnd="@+id/button4"  android:layout\_alignRight="@+id/button4"  android:text="Small Text"  android:textAppearance="?android:attr/textAppearanceSmall"/>   <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/textView4"  android:layout\_alignBaseline="@+id/textView2"  android:layout\_alignBottom="@+id/textView2"  android:layout\_centerHorizontal="true"  android:text="Medium Text"  android:textAppearance="?android:attr/textAppearanceMedium"/>  </RelativeLayout> |

