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- 会 首页
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人生就像爬坡, 得一步步来。

30 日志

分类 标签

8

Android MediaPlay的一个简单工具类及几点注意

步骤一: 代码如下

```
import android.content.Context;
import android.media.AudioManager;
import android.media.MediaPlayer;
import android.net.Uri;
import android.os.Handler;
import android.os.Message;
import android.util.Log;
import android.widget.ProgressBar;
import android.widget.SeekBar;
import java.io.IOException;
/**
* Created by imac on 2018/8/28.
public class MediaUtil implements MediaPlayer.OnPreparedListener, MediaPlayer.
    private static final String TAG = "LOG_MediaUtil";
   private static final int INTERNAL_TIME = 1000;
   private Context mContext;
   private MediaPlayer mediaPlayer;
    private SeekBar progressBar;
   public void setProgressBar(SeekBar progressBar) {
       this.progressBar = progressBar;
       this.progressBar.setOnSeekBarChangeListener(this);
   private final int MSG_UPDATA_PROGRESS = 0x10001;
   private Handler mHandler = new Handler(){
       @Override
       public void handleMessage(Message msg) {
           switch (msg.what){
               case MSG_UPDATA_PROGRESS:
                   Log.i(TAG,"MSG_UPDATA_PROGRESS");
                   // 展示给进度条和当前时间
```

```
if (mediaPlayer == null){
                    return;
                int progress = mediaPlayer.getCurrentPosition();
               if (progressBar != null){
                   Log.i(TAG,"MSG_UPDATA_PROGRESS progress = " + progress
                    progressBar.setProgress(progress);
               updateProgress();
               break;
            default:
               break;
        super.handleMessage(msg);
public MediaUtil(Context mContext) {
   this.mContext = mContext;
    mediaPlayer = new MediaPlayer();
public void playMusic(final String musilcUrl) {
      String url = "http://m10.music.126.net/20180829015325/2d0c208babcda7
   Log.i(TAG, "playMusic: enter");
   Uri musicUri = Uri.parse(musilcUrl);
     Uri musicUri = Uri.parse(url);
   Log.i(TAG, "playMusic: musicUri = " + musicUri);
   if (mediaPlayer.isPlaying()) {
       Log.i(TAG, "playMusic: isPlaying");
        stopMusic();
   try {
        mediaPlayer.setDataSource(mContext, musicUri);
       mediaPlayer.setAudioStreamType(AudioManager.STREAM_MUSIC);
        mediaPlayer.prepareAsync();
       mediaPlayer.setLooping(true);
        mediaPlayer.setOnPreparedListener(this);
        mediaPlayer.start();
   } catch (IOException e) {
        e.printStackTrace();
public void stopMusic() {
   Log.i(TAG, "stopMusic: enter");
   if (mediaPlayer == null) {
        Log.i(TAG, "stopMusic: is null mediaPlayer");
        return;
   mediaPlayer.reset();
   mediaPlayer.stop();
```

```
@Override
public void onPrepared(MediaPlayer mp) {
    Log.i(TAG, "onPrepared: enter getDuration is =" + mp.getDuration());
    mp.start();
    updateProgress();
    progressBar.setMax(mp.getDuration());
public void releaseMediaPlayer() {
    Log.i(TAG, "releaseMediaPlayer: enter");
    if (mediaPlayer != null) {
        mHandler.removeMessages(MSG_UPDATA_PROGRESS);
       mediaPlayer.stop();
       mediaPlayer.release();
       mediaPlayer = null;
@Override
public void onCompletion(MediaPlayer mp) {
// 每间隔1s通知更新进度
private void updateProgress() {
    // 使用Handler每间隔1s发送一次空消息,通知进度条更新
    Message msg = Message.obtain();// 获取一个现成的消息
    msg.what = MSG_UPDATA_PROGRESS;
    mHandler.sendMessageDelayed(msg, INTERNAL_TIME);
@Override
public void onProgressChanged(SeekBar seekBar, int progress, boolean fromU
    if(mediaPlayer != null && fromUser){
        mediaPlayer.seekTo(progress);
@Override
public void onStartTrackingTouch(SeekBar seekBar) {
@Override
public void onStopTrackingTouch(SeekBar seekBar) {
```

步骤二:注意点

1.勿忘mediaPlayer.reset();

当媒体已经播放了的时候,如果再直接调用mediaPlayer.stop()暂停音乐,而不调用

mediaPlayer.reset();且接使用setDataSource() 重新播放,则会出现<mark>illegalStateException</mark> 异常。 源码如下:

2.建议使用 mediaPlayer.prepareAsync();

prepare()会阻塞UI,容易造成卡顿,建议使用异步的prepareAsync();

源码:

```
* Prepares the player for playback, synchronously.
* After setting the datasource and the display surface, you need to either
* call prepare() or prepareAsync(). For files, it is OK to call prepare(),
* which blocks until MediaPlayer is ready for playback.
* @throws IllegalStateException if it is called in an invalid state
public void prepare() throws IOException, IllegalStateException {
    _prepare();
    scanInternalSubtitleTracks();
   // DrmInfo, if any, has been resolved by now.
   synchronized (mDrmLock) {
        mDrmInfoResolved = true;
* Prepares the player for playback, asynchronously.
* After setting the datasource and the display surface, you need to either
st call prepare() or prepareAsync(). For streams, you should call prepareAsync
* which returns immediately, rather than blocking until enough data has been
* buffered.
* @throws IllegalStateException if it is called in an invalid state
public native void prepareAsync() throws IllegalStateException;
```

使用prepareAsync()时,实现OnPreparedListener接口,当资源准备好之后,调用mp.start();播放媒

3.进度条如代码所示,不细说了。主要实现SeekBar.OnSeekBarChangeListener 接口,进行拖动进度条时进行监听。

步骤三: 进一步思考

由于Android 原生的MediaPlay没有缓存,重复播放相同音乐时会造成重复加载网络资源。这部分可以考虑缓存到本地,减少流量的消耗以及加快播放速度。



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本文链接: http://qrcodewithlogo.com/Android MediaPlay的一个简单工具类及几点注

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Android

∢ Android Studio
android.support.v4.content.FileProvider
和三方库冲突

Android项目总结—— **>**StaggeredGridLayoutManager 瀑布流常
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