스마트폰 프로그래밍 Assign #9

(제목 : SimpleAudioPlayer)

학번 : 2016305078

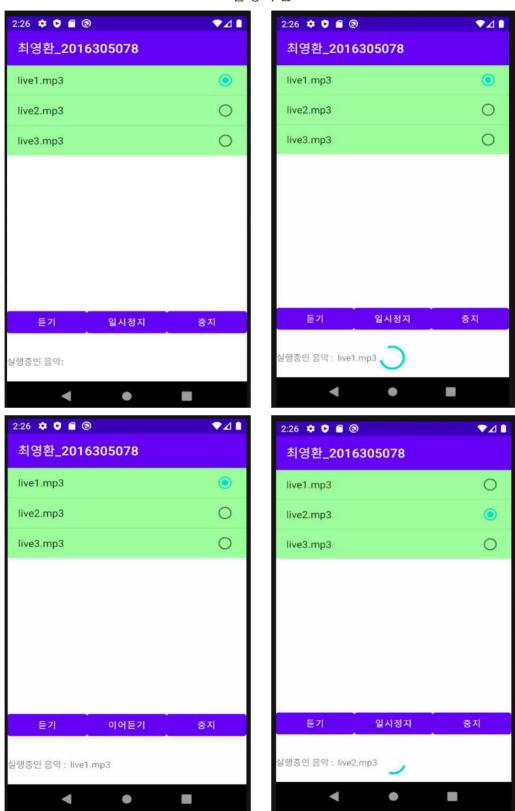
성명: 최 영 환

제출일자 : 2021.11.24

본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다

<본인사인 : 최영환>

<실행화면>



재생, 일시정지, 이어듣기, 프로그레스바 동작 정상 작동을 확인하였습니다.

<MainActivity.java>

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> De mipmap

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                                         String mp3Path = Environment.getExternalStorageDirectory().getAbsolutePath() + "/";
       > b themes (2)
                                              for (File file : listFiles) {
   fileName = file.getName();
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                                      public void onClick(View v) {
   if (PAUSED == false) {
     mPlayer.pause();
}
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    com.example.sl
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      🏯 stringsxml
    > themes
```

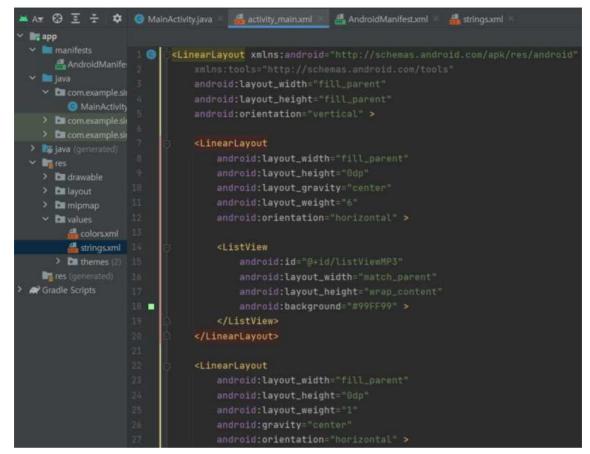
```
package com.example.simpleaudioplayer;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EistView;
import android.widget.ProgressBar;
import android.widget.TextView;
import java.io.File;
```

```
import java.io.IOException;
import java.util.ArrayList;
public class MainActivity extends AppCompatActivity {
    ListView listViewMP3:
    Button btnPlay, btnPause, btnStop;
    TextView tvMP3;
    ProgressBar pb;
    ArrayList < String > mp3List;
    String selectedMP3;
    String mp3Path = Environment.getExternalStorageDirectory().getAbsolutePath() +"/";
    MediaPlaver mPlaver:
    boolean PAUSED =false;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ActivityCompat.requestPermissions(this,
                 new String[] {android.Manifest.permission.WRITE EXTERNAL STORAGE},
                 MODE PRIVATE);
        mp3List =new ArrayList <String >();
        File[] listFiles = new File(mp3Path).listFiles();
        String fileName, extName;
        for (File file : listFiles) {
            fileName = file.getName();
            extName = fileName.substring(fileName.length() -3);
            if (extName.equals((String) "mp3"))
                 mp3List.add(fileName);
        listViewMP3 = (ListView) findViewById(R.id.listViewMP3);
        ArrayAdapter < String > adapter = new ArrayAdapter < String > (this,
                 android.R.layout.simple_list_item_single_choice, mp3List);
        listViewMP3.setChoiceMode(ListView.CHOICE_MODE_SINGLE);
        listViewMP3.setAdapter(adapter);
        listViewMP3.setItemChecked(0, true);
        listViewMP3
                 .setOnItemClickListener(new AdapterView.OnItemClickListener() {
                     public void onItemClick(AdapterView <?> arg0, View arg1,
                                               int arg2, long arg3) {
                         selectedMP3 = mp3List.get(arg2);
                     }
                });
        if(!mp3List.isEmpty()) {
            selectedMP3 = mp3List.get(0);
        btnPlay = (Button) findViewById(R.id.btnPlay);
        btnPause = (Button) findViewByld(R.id.btnPause);
        btnStop = (Button) findViewByld(R.id.btnStop);
        tvMP3 = (TextView) findViewById(R.id.tvMP3);
        pb = (ProgressBar) findViewById(R.id.pbMP3);
        btnPlay.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                 try {
                     mPlayer = new MediaPlayer();
                     mPlayer.setDataSource(mp3Path + selectedMP3);
```

```
mPlayer.prepare();
                      mPlayer.start();
                      btnPlay.setClickable(false);
                      btnPause.setClickable(true);
                      btnStop.setClickable(true);
                      tvMP3.setText("실행중인 음악: "+ selectedMP3);
                      pb.setVisibility(View.VISIBLE);
                 } catch (IOException e) {
                 }
             }
         });
         btnPause.setOnClickListener(new View.OnClickListener() {
             public void onClick(View v) {
                  if (PAUSED == false) {
                      mPlayer.pause();
                      btnPause.setText("이어듣기");
                      PAUSED =true;
                      pb.setVisibility(View.INVISIBLE);
                 } else {
                      mPlayer.start();
                      PAUSED =false;
                      btnPause.setText("일시정지");
                      pb.setVisibility(View.VISIBLE);
                 }
             }
        });
         btnPause.setClickable(false);
         btnStop.setOnClickListener(new View.OnClickListener() {
             public void onClick(View v) {
                  mPlayer.stop();
                  mPlayer.reset();
                  btnPlay.setClickable(true);
                  btnPause.setClickable(false);
                  btnPause.setText("일시정지");
                  btnStop.setClickable(false);
                  tvMP3.setText("실행중인 음악:
                  pb.setVisibility(View.INVISIBLE);
             }
         btnStop.setClickable(false);
    }
}
```

<string.xml>

<activity_main.xml>



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       AndroidManife:
                                          android: layout_width="fill_parent"
      com.example.sli
                                          android:layout_height="wrap_content"
                                      android:text="巨河" />
<Button
                                           android:layout_weight="1"
  > lava
                                          android:layout_width="fill_parent"
    > drawable
    > b mipmap
    acolorsxml
                                      <Button
       > In themes (2)
                                          android:layout_height="wrap_content"
> A Gradle Scripts
                                          android:layout_weight="1"
                                 </LinearLayout>
                                  <LinearLayout
                                     android:layout_width="fill_parent"
                                      android:gravity="left|center"
android:orientation="horizontal" >
                                      <ProgressBar
                                  </LinearLayout>
```

```
android:layout width="match parent"
        android:layout_height="wrap_content"
        android:background="#99FF99">
        </ListView >
    </LinearLayout >
    <LinearLayout
        android:layout_width="fill_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:gravity="center"
        android:orientation="horizontal">
        <Button
                android:id="@+id/btnPlay"
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="듣기"/>
        <Button
                android:id="@+id/btnPause"
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="일시정지"/>
        <Button
                android:id="@+id/btnStop"
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="중지"/>
    </LinearLayout >
    <LinearLayout</pre>
        android:layout_width="fill_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:gravity="left|center"
        android:orientation="horizontal">
        <TextView
                android:id="@+id/tvMP3"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="실행중인 음악:"/>
        <ProgressBar
                android:id="@+id/pbMP3"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:visibility="invisible"/>
    </LinearLayout >
</LinearLayout >
```

<AndroidManifest.xml>

```
<?xml version="1.0"encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
package="com.example.simpleaudioplayer">
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>
    <uses-permission
        android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
        android:name="android.permission.MANAGE_EXTERNAL_STORAGE"/>
    <application
android:allowBackup="true"
android:icon="@mipmap/ic launcher"
android:label="@string/app_name"
android:roundlcon="@mipmap/ic_launcher_round"
android:supportsRtl="true"
android:theme="@style/Theme.SimpleAudioPlayer"
android:requestLegacyExternalStorage="true">
       <activity
android:name=".MainActivity"
android:exported="true">
            <intent-filter >
                <action android:name="android.intent.action.MAIN"/>
                <category android:name="android.intent.category.LAUNCHER"/>
            </intent-filter >
        </activity >
    </application >
</manifest >
```