

Android-er

WEDNESDAY, APRIL 20, 2011

Unzip compressed file, using java.util.zip

[java.util.zip](#) package of Android can help to extract compressed file in ZIP format.

Modify from previous exercise "[How to get file extension using java code](#)", implement a function `unzip()`.

If the extension of the returned file using `Intent.ACTION_GET_CONTENT` is "zip", call the function `unzip()` to extract compressed file.

```
package com.exercise.AndroidPick_a_File;

import java.io.BufferedInputStream;
import java.io.BufferedOutputStream;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.util.zip.ZipEntry;
import java.util.zip.ZipInputStream;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
```

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```

import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class AndroidPick_a_File extends Activity {

    TextView textFile, textFileName, textFolder;
    TextView textFileName_WithoutExt, textFileName_Ext;

    private static final int PICKFILE_RESULT_CODE = 1;

    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);

        Button buttonPick = (Button)findViewById(R.id.buttonpick);
        textFile = (TextView)findViewById(R.id.textfile);
        textFolder = (TextView)findViewById(R.id.textfolder);
        textFileName = (TextView)findViewById(R.id.textfilename);

        textFileName_WithoutExt
            = (TextView)findViewById(R.id.textfilename_withoutext);
        textFileName_Ext
            = (TextView)findViewById(R.id.textfilename_ext);

        buttonPick.setOnClickListener(new Button.OnClickListener(){

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub

                Intent intent = new Intent(Intent.ACTION_GET_CONTENT);
                intent.setType("file/*");
                startActivityForResult(intent,PICKFILE_RESULT_CODE);

            }
        });
    }
}

```

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```

    }

@Override
protected void onActivityResult(int requestCode,
    int resultCode, Intent data) {
    // TODO Auto-generated method stub
    switch(requestCode){
    case PICKFILE_RESULT_CODE:
        if(resultCode==RESULT_OK){

            String FilePath = data.getData().getPath();
            String FileName = data.getData().getLastPathSegment();
            int lastPos = FilePath.length() - FileName.length();
            String Folder = FilePath.substring(0, lastPos);

            textFile.setText("Full Path: \n" + FilePath + "\n");
            textFolder.setText("Folder: \n" + Folder + "\n");
            textFileName.setText("File Name: \n" + FileName + "\n");

            filename thisFile = new filename(FileName);

            textFileName_WithoutExt.setText("Filename without Ext: "
                + thisFile.getFilename_Without_Ext());
            textFileName_Ext.setText("Ext: " + thisFile.getExt());

            if(thisFile.getExt().equalsIgnoreCase("zip")){
                unzip(FilePath, Folder);
            }

        }
        break;

    }
}

private class filename{

    String filename_Without_Ext = "";
    String ext = "";

```

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```

filename(String file){
    int dotposition= file.lastIndexOf(".");
    filename_Without_Ext = file.substring(0,dotposition);
    ext = file.substring(dotposition + 1, file.length());
}

String getFilename_Without_Ext(){
    return filename_Without_Ext;
}

String getExt(){
    return ext;
}
}

private void unzip(String src, String dest){

    final int BUFFER_SIZE = 4096;

    BufferedOutputStream bufferedOutputStream = null;
    FileInputStream fileInputStream;
    try {
        fileInputStream = new FileInputStream(src);
        ZipInputStream zipInputStream
            = new ZipInputStream(new BufferedInputStream(fileInputStream));
        ZipEntry zipEntry;

        while ((zipEntry = zipInputStream.getNextEntry()) != null){

            String zipEntryName = zipEntry.getName();
            File file = new File(dest + zipEntryName);

```

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```
if (file.exists()){

} else {
    if(zipEntry.isDirectory()){
        file.mkdirs();
    }else{
        byte buffer[] = new byte[BUFFER_SIZE];
        FileOutputStream fileOutputStream = new FileOutputStream(file)

        bufferedOutputStream
            = new BufferedOutputStream(fileOutputStream, BUFFER_SIZE);
        int count;

        while ((count
            = zipInputStream.read(buffer, 0, BUFFER_SIZE)) != -1) {
            bufferedOutputStream.write(buffer, 0, count);
        }

        bufferedOutputStream.flush();
        bufferedOutputStream.close();
    }
}
zipInputStream.close();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
} catch (IOException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}
}
```

Keep using the layout file main.xml in the previous exercise "[How to get file extension using java code](#)".

In order to write back the extracted files, modify AndroidManifest.xml to grant permission of "android.permission.WRITE_EXTERNAL_STORAGE".

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.exercise.AndroidPick_a_File"
    android:versionCode="1"
    android:versionName="1.0">
    <uses-sdk android:minSdkVersion="4" />
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"></uses-permission>

    <application android:icon="@drawable/icon" android:label="@string/app_name">
        <activity android:name=".AndroidPick_a_File"
            android:label="@string/app_name">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```



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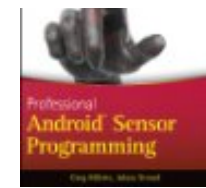
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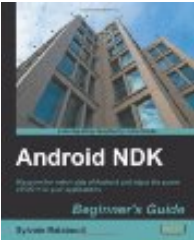
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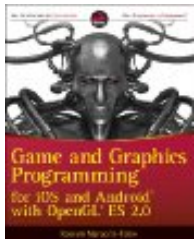
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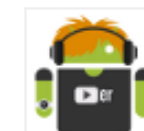
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