在应用中http请求可能不止一次用到，故将HTTP操作提取成单独的类，实现代码复用。

首先贴上布局文件

```
1.   <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
2.       xmlns:tools="http://schemas.android.com/tools"
3.       android:layout_width="match_parent"
4.       android:layout_height="match_parent"
5.       android:orientation="vertical"
6.       tools:context="${relativePackage}.${activityClass}" >
7.
8.       <Button
9.           android:id="@+id/send_request"
10.          android:layout_width="match_parent"
11.          android:layout_height="wrap_content"
12.          android:text="Send Request" />
13.
14.      <ScrollView
15.          android:layout_width="match_parent"
16.          android:layout_height="match_parent" >
17.
18.          <TextView
19.              android:id="@+id/response_text"
20.              android:layout_width="match_parent"
21.              android:layout_height="wrap_content" />
22.      </ScrollView>
23.
24.  </LinearLayout>
```

Http请求类

```
1.   import java.io.InputStream;
2.   import java.net.HttpURLConnection;
3.   import java.net.URL;
4.   import java.net.URLConnection;
5.
6.
7.   public class HttpUtil {
8.
9.       public static void sendHttpRequest(final String address,final HttpCallbackListe
10.          new Thread(new Runnable() {
11.
12.              @Override
13.              public void run() {
14.
15.                  HttpURLConnection connection=null;
16.                  try{
17.                      URL url=new URL(address);
18.                      connection=(HttpURLConnection)url.openConnection();
19.                      // 200 成功 302 从定向(页面) 404资源没找到 5xx 服务器内部错误
20.                      int code = connection.getResponseCode();
```

```java
21.                     while(code==301||code==302)
22.                     {
23.                         connection=(HttpURLConnection)reload(connection);
24.                         code = connection.getResponseCode();
25.                     }
26.                     if(code==200)
27.                     {
28.                         connection.setRequestMethod("GET");
29.                         connection.setConnectTimeout(8000);
30.                         connection.setReadTimeout(8000);
31.                         InputStream in=connection.getInputStream();
32.                         StringBuilder response=new StringBuilder();
33.                         String line;
34.                         byte[] buffer = new byte[1024];
35.                         int len = -1;
36.                         while ((len = in.read(buffer)) != -1) {
37.                             line=new String(buffer,0,len);
38.                             if(line.contains("charset=utf-8")){//解析meta标签
39.                                 line=new String(line.getBytes(),"utf-8");
40.                             }
41.                             response.append(line);
42.                         }
43.                         if(listener!=null){
44.                             listener.onFinish(response.toString());
45.                         }
46.                     }else{
47.                         if(listener!=null){
48.                             listener.onFinish(code+" happened");
49.                         }
50.                     }
51.
52.
53.                 }catch(Exception e)
54.                 {
55.                     e.printStackTrace();
56.                     listener.onError(e);
57.                 }finally{
58.                     if(connection!=null){
59.                         connection.disconnect();
60.                     }
61.                 }
62.
63.             }
64.         }).start();
65.
66.     }
67.     private static URLConnection reload(URLConnection uc) throws Exception
68.     {
69.         HttpURLConnection huc = (HttpURLConnection) uc;
70.         if (huc.getResponseCode() == HttpURLConnection.HTTP_MOVED_TEMP || huc.getRe
71.             // 302, 301
72.             return reload(new URL(huc.getHeaderField("location")).openConnection()
73.         return uc;
74.
```

```
75.        }
76.    }
```

接口文件，实现线程与主界面的交互

```
1.    package com.example.httputil;
2.
3.    public interface HttpCallbackListener {
4.
5.        void onFinish(String response);
6.
7.        void onError(Exception e);
8.    }
```

主程序：

```
1.    package com.example.httputil;
2.
3.
4.    import android.app.Activity;
5.    import android.os.Bundle;
6.    import android.os.Handler;
7.    import android.os.Message;
8.    import android.view.Menu;
9.    import android.view.MenuItem;
10.   import android.view.View;
11.   import android.view.View.OnClickListener;
12.   import android.widget.Button;
13.   import android.widget.TextView;
14.   import android.widget.Toast;
15.
16.   public class MainActivity extends Activity implements OnClickListener{
17.
18.       private static final int SHOW_RESPONSE = 0;
19.       private static final int SHOW_ERROR = 1;
20.       private Button sendRequestButton;
21.       private TextView responseTextView;
22.       private Handler handler = new Handler() {
23.           public void handleMessage(android.os.Message msg) {
24.               switch (msg.what) {
25.               case SHOW_RESPONSE:
26.                   String response = (String) msg.obj;
27.                   // 在这里进行UI操作，将结果显示到界面上
28.                   responseTextView.setText(response);
29.                   break;
30.               case SHOW_ERROR:
31.                   Toast.makeText(getApplicationContext(), "get "+(String) msg.obj, To
32.                   break;
33.               default:
34.                   break;
35.               }
36.           };
```

```java
37.        };
38.        @Override
39.        protected void onCreate(Bundle savedInstanceState) {
40.            super.onCreate(savedInstanceState);
41.            setContentView(R.layout.activity_main);
42.            sendRequestButton = (Button) findViewById(R.id.send_request);
43.            responseTextView = (TextView) findViewById(R.id.response_text);
44.            sendRequestButton.setOnClickListener(this);
45.        }
46.
47.        @Override
48.        public void onClick(View arg0) {
49.            // TODO Auto-generated method stub
50.            if (arg0.getId() == R.id.send_request) {
51.                HttpUtil.sendHttpRequest("http://www.baidu.com", new HttpCallbackLister
52.
53.                    @Override
54.                    public void onFinish(String response) {
55.                        // TODO Auto-generated method stub
56.                        Message message = new Message();
57.                        message.what = SHOW_RESPONSE;
58.                        message.obj = response;
59.                        handler.sendMessage(message);
60.                    }
61.
62.                    @Override
63.                    public void onError(Exception e) {
64.                        // TODO Auto-generated method stub
65.                        Message message = new Message();
66.                        message.what = SHOW_ERROR;
67.                        message.obj = e.getMessage();
68.                        handler.sendMessage(message);
69.                    }
70.                });
71.            }
72.        }
73.
74.    }
```

不要忘记权限

```xml
1.    <uses-permission android:name="android.permission.INTERNET" />
```

运行效果：

18:46 🧍 ⚓   0 ᴷ/s 🔇 🕐 4G ●●●●● ⚡ ▬ 100

SEND REQUEST

receive: <!DOCTYPE html>

```html
<html><!--STATUS OK--><head><meta name="referrer" content="always" /><meta charset='utf-8' /><meta name="viewport" content="width=device-width,minimum-scale=1.0,maximum-scale=1.0,user-scalable=no"/><meta name="format-detection" content="telephone=no"/><noscript><style type="text/css">#page{display:none;}</style><meta http-equiv="refresh" content="0; URL=http://m.baidu.com/?from=844b&amp;vit=fps&amp;pu=sz%401321_480&amp;t_noscript=jump" /></noscript><title>百度一下</title><style type="text/css" id='spa-base-style'>#search-card {display: none;}</style><style type="text/css">@font-face{font-family: 'icons';src: url(https://gss0.bdstatic.com/5bd1bjqh_Q23odCf/static/wiseindex/iconfont/iconfont_d62e2b18.eot);src: url(https://gss0.bdstatic.com/5bd1bjqh_Q23odCf/static/wiseindex/iconfont/iconfont_d62e2b18.eot#iefix) format('embedded-opentype'), url(https://gss0.bdstatic.com/5bd1bjqh_Q23odCf/static/wiseindex/iconfont/iconfont_cc49e2cb.woff) format('woff'), url(https://gss0.bdstatic.com/5bd1bjqh_Q23odCf/static/wiseindex/iconfont/iconfont_90ac37dc.ttf) format('truetype'), url(https://gss0.bdstatic.com/5bd1bjqh_Q23odCf/static/wiseindex/iconfont/iconfont_36fbf316.svg#iconfont) format('svg');font-weight: normal;font-style: normal;}i.ns-focus,i.ns-news,i.ns-novel,i.ns-video,i.ns-life,i.ns-map,i.ns-tieba,i.ns-app,i.ns-image,i.ns-website,i.ns-extend,i.ns-music{background: url(https://gss0.bdstatic.com/5bd1bjqh_Q23odCf/static/wiseindex/img/ns_diff_color_v2.png) no-repeat;background-size: 22px auto;}</style><style type="text/css" class="spa-index-style" data-lsid="plus_css_head">body,h1,h2,h3,p,div,ol,ul,input,button{margin:0;padding:0}body{font-family:Arial, Helvetica, sans-serif;text-align:center;-webkit-text-size-adjust:none;background:#f1f1f1;overflow-x:hidden}ol,ul{list-style:none}a{text-decoration:none;-webkit-tap-highlight-color:rgba(0,0,0,0)}input,button,textarea{border:0;border-radius:0;background:transparent;-webkit-appearance:none;-webkit-box-sizing:
```

transparent;-webkit-appearance:none;-webkit-box-sizing: