容등

Evan

Only let oneself become strong enough, good enough, can afford the life that you want to.



从创业到再就业,浅述对程序员职业生涯的看法 征文 | 你会为 AI 转型么? 赠书:7月大咖新书机器学习/Android/python

Android实现自动定位城市并获取天气信息 标签: android 定位 天气预报 2016-01-10 23:34 4487人阅读 评论(5) 收藏 举报

≥ 分类: 移动开发(38) ▼

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定位实现代码:

```
01.
     <span style="font-size:14px;">import java.io.IOException;
02.
     import java.util.List;
03.
     import android.content.Context;
04.
05.
     import android.location.Address;
06.
     import android.location.Criteria:
07.
     import android.location.Geocoder;
08.
     import android.location.Location:
09.
     import android.location.LocationListener;
10.
     import android.location.LocationManager;
11.
     import android.os.Bundle;
12.
     public class LocationUtils {
13.
14.
         public static String cityName; //城市名
         private static Geocoder geocoder; //此对象能通过经纬度来获取相应的城市等信息
15.
         //通过地理坐标获取城市名 其中CN分别是city和name的首字母缩写
16.
17.
         public static void getCNBylocation(Context context){
18.
             geocoder = new Geocoder(context);
19.
             //用于获取Location对象,以及其他
20.
             LocationManager locationManager;
             String serviceName = Context.LOCATION_SERVICE;
21.
22.
             //实例化一个LocationManager对象
23.
             locationManager = (LocationManager) context.getSystemService(serviceName);
24.
             //provider的类型
25.
             String provider = LocationManager.NETWORK PROVIDER;
26.
27.
             Criteria criteria = new Criteria();
28.
             criteria.setAccuracy(Criteria.ACCURACY_LOW); //低精度 高精度: ACCURACY_FINE
                                                    //不要求海拔
29.
             criteria.setAltitudeRequired(false);
30.
             criteria.setBearingRequired(false);
                                                    //不要求方位
                                               //不允许产生资费
31.
             criteria.setCostAllowed(false);
32.
             criteria.setPowerRequirement(Criteria.POWER_LOW); //低功耗
33.
34.
             //通过最后一次的地理位置来获取Location对象
             Location location = locationManager.getLastKnownLocation(provider);
35.
36.
             String queryed_name = updateWithNewLocation(location);
37.
38.
             if((queryed_name!=null)&&(0!=queryed_name.length())){
39.
                cityName = queryed_name;
40.
             }
41.
             第二个参数表示更新的周期,单位为毫秒,
42.
             第三个参数的含义表示最小距离间隔,单位是米,设定每30秒进行一次自动定位
43.
44.
45.
             locationManager.requestLocationUpdates(provider, 30000, 50, locationListener);
46.
             //移除监听器,在只有一个widget的时候,这个还是适用的
             locationManager.removeUpdates(locationListener);
```

```
48.
  49
            //方位改变是触发,进行调用
  50.
            private final static LocationListener locationListener = new LocationListener() {
  51.
                String tempCityName;
  52.
                @Override
  53.
                public void onStatusChanged(String provider, int status, Bundle extras) {
  54.
                }
  55.
                @Override
  56.
                public void onProviderEnabled(String provider) {
  57.
                @Override
  58.
  59.
                public void onProviderDisabled(String provider) {
                    tempCityName = updateWithNewLocation(null);
  60.
  61.
                    if((tempCityName!=null)&&(tempCityName.length()!=0)){
                        cityName = tempCityName;
  62.
  63.
  64.
                }
  65.
                @Override
                public void onLocationChanged(Location location) {
  66.
                    tempCityName = updateWithNewLocation(location);
  67.
  68.
                    if((tempCityName!=null)&&(tempCityName.length()!=0)){
                         cityName = tempCityName;
  69.
  70.
  71.
                }
  72.
            };
  73.
            //更新location return cityName
  74.
            private static String updateWithNewLocation(Location location){
  75.
                String mcityName = "";
  76.
                double lat = 0;
  77.
                double lng = 0;
  78.
                List<Address> addList = null;
  79.
                if(location!=null){
  80.
                    lat = location.getLatitude();
  81.
                    lng = location.getLongitude();
  82.
                }else{
                    cityName = "无法获取地理信息";
  83.
  84.
                }
  85.
                try {
  86.
                     addList = geocoder.getFromLocation(lat, lng, 1);
  87.
                } catch (IOException e) {
  88.
                    e.printStackTrace();
  89.
  90.
                if(addList!=null&&addList.size()>0){
                    for(int i=0:i<addList.size():i++){</pre>
  91.
  92.
                        Address add = addList.get(i);
  93.
                        mcityName += add.getLocality();
  94.
  95.
                }
  96.
                if(mcityName.length()!=0){
  97.
                    return mcityName.substring(0, (mcityName.length()-1));
  98.
  99
                    return mcityName;
 100.
 101.
            }
 102.
        }
 103.
       </span>
  01.
        <span style="font-size:14px;">public class TargetUrl {
            public final static String url1 = "http://api.map.baidu.com/telematics/v3/weather?location=";
  02.
            public final static String url2 = "&output=json&ak=9cCAXQFB468dsH11GOWL8Lx4";
  03.
  04.
        }
  05.
       </span>
根据定位到的城市名获取天气信息实现代码:
        [java]
        <span style="font-size:14px;">import java.io.IOException;
  01.
  02.
        import java.io.InputStream;
        import java.net.HttpURLConnection;
  03.
        import java.net.MalformedURLException;
```

```
05.
      import java.net.URL;
06.
07.
     import org.apache.http.HttpResponse;
08.
     import org.apache.http.HttpStatus;
09.
      import org.apache.http.client.ClientProtocolException;
10.
     import org.apache.http.client.HttpClient;
     import org.apache.http.client.methods.HttpGet;
11.
12.
      import org.apache.http.impl.client.DefaultHttpClient;
      import org.apache.http.util.EntityUtils;
13.
14.
      import org.json.JSONArray;
     import org.json.JSONObject;
15.
16.
17.
      import android.annotation.SuppressLint:
18.
      import android.content.Context;
     import android.graphics.Bitmap;
19.
20.
     import android.graphics.BitmapFactory;
21.
     import android.os.Bundle:
22.
      import android.os.Handler;
     import android.os.Message;
23.
24.
     import android.support.v4.app.Fragment;
25.
     import android.view.LayoutInflater;
26.
      import android.view.View;
27.
     import android.view.ViewGroup;
28.
     import android.widget.ImageView;
29.
     import android.widget.TextView;
30.
     import android.widget.Toast;
31.
32.
     import com.mine.xinlangapp.R;
33.
     import com.mine.xinlangapp.activity.MainActivity;
34.
      import com.mine.xinlangapp.location.LocationUtils;
35.
      import com.mine.xinlangapp.location.TargetUrl;
36.
37.
      public class TupianFragment extends Fragment{
38.
          private TextView tv. tv1, tv2, tv3, tv4, tv5;
39.
          private ImageView iv_one, iv_two;
         private static String cityName = "";
40.
41.
          private String result = "";
          private static Context context = null;
42.
43.
          private Bitmap bitmap1, bitmap2;
44.
          private static TupianFragment tupian = null;
45.
          public static int tupian_hour = 60;
46.
          private static Handler handler3 = new Handler();
47.
          @SuppressWarnings("deprecation")
          private static Runnable runnable = new Runnable() {
48.
49.
50.
             public void run() {
51.
                  tupian.getActivity().removeDialog(0);
                  Toast.makeText(tupian.getActivity(), "加载失败", Toast.LENGTH_SHORT).show();
52.
53.
                  handler3.postDelayed(this, 2000); //每两秒执行一次runnable
          //
54.
             }
55.
          };
          //自动刷新
56.
          private Runnable runnable2 = new Runnable() {
57.
58.
             @Override
59.
             public void run() {
60.
                  tupian.send(cityName);
61.
                  Message m = tupian.handler.obtainMessage();
62.
                  tupian.handler.sendMessage(m);
                  handler3.postDelayed(this, tupian_hour*3600*1000);
63.
64.
65.
          };
66.
          @SuppressLint("HandlerLeak")
67.
          @SuppressWarnings("deprecation")
          public static Handler handler1 = new Handler(){
68.
             public void handleMessage(Message msg){
69.
70.
                 tupian.getActivity().showDialog(0);
71.
                  //启动定时器
72.
                  handler3.postDelayed(runnable, 5000); //五秒后执行
73.
                  new Thread(new Runnable() {
                      @Override
75.
                      public void run() {
76.
                          tupian.send(cityName);
77.
                          Message m = tupian.handler.obtainMessage();
78.
                          tupian.handler.sendMessage(m);
79
                      }
80.
                  }).start();
81.
82.
          @SuppressLint("HandlerLeak")
```

```
84.
           private Handler handler = new Handler(){
 85.
               public void handleMessage(Message msg){
 86.
                   if(result != null){
 87.
                       try {
 88.
                           JSONObject datajson = new JSONObject(result); //第一步,将String格式转换回json格式
 89.
                           JSONArray results = datajson.getJSONArray("results"); //获取results数组
 90.
 91.
                           JSONObject city = results.getJSONObject(0);
 92.
                           String currentCity = city.getString("currentCity"); //获取city名字
 93.
                           String pm25 = city.getString("pm25"); //获取pm25
                           tv.setText("城市: "+currentCity+"\n"+"pm25: "+pm25); //测试城市和pm25
 94.
 95
                           JSONArray index = city.getJSONArray("index"); //获取index里面的JSONArray
 96.
                           //获取穿衣
 97.
                           JSONObject cy = index.getJSONObject(0);
 98.
                           String titlec = cy.getString("title");
                           String zsc = cy.getString("zs");
 99.
100.
                           String tiptc = cy.getString("tipt");
101.
                           String desc = cy.getString("des");
                           //获取洗车
102.
103.
                           JSONObject xc = index.getJSONObject(1);
104.
                          String titlex = xc.getString("title");
105.
                           String zsx = xc.getString("zs");
106.
                           String tiptx = xc.getString("tipt");
107.
                           String desx = xc.getString("des");
                           tv1.setText(titlec+" : "+zsc+"\n"+tiptc+" : "+desc);
108.
109.
                           tv2.setText(titlex+" : "+zsx+"\n"+tiptx+" : "+desx);
110.
111.
                           //weather_data, 未来几天
112.
                           JSONArray weather_data = city.getJSONArray("weather_data");
113.
                           //获取今天
114.
                           JSONObject today = weather_data.getJSONObject(0);
115.
                           String date0 = today.getString("date");
116.
                           final String dayPictureUrl0 = today.getString("dayPictureUrl");
117.
                           final String nightPictureUrl0 = today.getString("nightPictureUrl");
118.
                           String weather0 = today.getString("weather");
119.
                           String wind0 = today.getString("wind");
120.
                           String temperature0 = today.getString("temperature");
                           tv3.setText("\n"+"今天: "+date0+"\n"+"实时: "+weather0+"\n"+"风力: "+
121.
122.
                           wind0+"\n"+"温度范围: "+temperature0+"\n");
123.
                           //获取明天
124.
                           JSONObject tomorrow = weather_data.getJSONObject(1);
125.
126.
                           String date1 = tomorrow.getString("date");
127.
                           String weather1 = tomorrow.getString("weather");
128.
                           String wind1 = tomorrow.getString("wind");
129.
                           String temperature1 = tomorrow.getString("temperature");
                           tv4.setText("明天: "+date1+"\n"+weather1+"\n"+
130.
                           "风力: "+wind1+"\n"+"温度范围: "+temperature1+"\n");
131.
132.
                           //获取后天
133.
134.
                           JSONObject after_tomorrow = weather_data.getJSONObject(2);
135.
                           String date2 = after_tomorrow.getString("date");
136.
                           String weather2 = after_tomorrow.getString("weather");
137.
                           String wind2 = after_tomorrow.getString("wind");
138.
                           String temperature2 = after tomorrow.getString("temperature");
                           tv5.setText("后天: "+date2+"\n"+weather2+"\n"+
139
                           "风力: "+wind2+"\n"+"温度范围: "+temperature2+"\n");
140.
141.
142.
                          new Thread(new Runnable() {
143.
                               @Override
144.
                               public void run() {
145.
                                   bitmap1 = returnBitMap(dayPictureUrl0);
146.
                                   bitmap2 = returnBitMap(nightPictureUrl0);
147.
                                   Message m = handler2.obtainMessage();
148.
                                   handler2.sendMessage(m):
149.
150.
                           }).start():
151.
                       } catch (Exception e) {
152.
                           e.printStackTrace();
153.
154.
                   }
155.
                   super.handleMessage(msg);
156.
              }
157.
158.
           @SuppressWarnings("deprecation")
159.
           @SuppressLint("HandlerLeak")
160.
           private Handler handler2 = new Handler(){
161.
              public void handleMessage(Message msg){
162.
                   if(bitmap1!=null)
```

```
163.
                       iv_one.setImageBitmap(bitmap1);
164.
                   if(bitmap2!=null)
165.
                       iv_two.setImageBitmap(bitmap2);
166.
                   if(bitmap1!=null&&bitmap2!=null){
167.
                       //停止计时器
168.
                       handler3.removeCallbacks(runnable);
                       tupian.getActivity().removeDialog(0);
169.
170.
                   }
171.
               }
172.
           };
173.
           @Override
174.
           public View onCreateView(LayoutInflater inflater, ViewGroup container,
175.
                   Bundle savedInstanceState){
176.
               context = TupianFragment.this.getActivity();
177.
               tupian = TupianFragment.this;
               LocationUtils.getCNBylocation(context);
178.
179.
               citvName = LocationUtils.citvName:
180.
               MainActivity.text.setText(cityName);
181.
182.
               View view = inflater.inflate(R.layout.tupianfragment, container,false);
183.
               iv_one = (ImageView) view.findViewById(R.id.iv_one);
184.
               iv_two = (ImageView) view.findViewById(R.id.iv_two);
185.
               tv = (TextView) view.findViewById(R.id.tv);
186.
               tv1 = (TextView) view.findViewById(R.id.tv1);
187.
               tv2 = (TextView) view.findViewById(R.id.tv2);
188.
               tv3 = (TextView) view.findViewById(R.id.tv3);
189.
               tv4 = (TextView) view.findViewById(R.id.tv4);
190.
               tv5 = (TextView) view.findViewById(R.id.tv5);
191.
               //启动计时器
192.
               handler3.postDelayed(runnable2, tupian_hour*3600*1000);
193.
               new Thread(new Runnable() {
194.
                   @Override
195.
                   public void run() {
196.
197.
                       send(cityName);
                       Message m = handler.obtainMessage();
198.
199.
                       handler.sendMessage(m);
200.
201.
               }).start();
202.
203.
               return view;
204.
           }
205.
           private String send(String city){
               String target = TargetUrl.url1+city+TargetUrl.url2; //要提交的目标地址
206.
               HttpClient httpclient = new DefaultHttpClient();
207.
208.
               HttpGet httpRequest = new HttpGet(target); //创建HttpGet对象
209.
               HttpResponse httpResponse = null;
210.
               try {
211.
                   httpResponse = httpclient.execute(httpRequest);
212.
                   if(httpResponse.getStatusLine().getStatusCode() == HttpStatus.SC_OK){
213.
                       result = EntityUtils.toString(httpResponse.getEntity()).trim(); //获取返回的字符串
214.
                   }else{
                       result = "fail";
215.
216.
                   }
217.
               } catch (ClientProtocolException e) {
218.
                   e.printStackTrace();
219.
               }catch (IOException e) {
220.
                   e.printStackTrace();
221.
               }
222.
               return null;
223.
224.
           //以Bitmap的方式获取一张图片
225.
           public Bitmap returnBitMap(String url){
               URL myFileUrl = null;
226.
               Bitmap bitmap = null;
227.
228.
                   myFileUrl = new URL(url);
229.
230.
               }catch(MalformedURLException e){
231.
                   e.printStackTrace();
232.
233.
               try{
234.
                   HttpURLConnection conn = (HttpURLConnection) myFileUrl.openConnection();
235.
                   conn.setDoInput(true);
236.
                   conn.connect();
237.
                   InputStream is = conn.getInputStream();
238.
                   bitmap = BitmapFactory.decodeStream(is);
239
                   is.close();
240.
               }catch(IOException e){
                   e.printStackTrace();
```

```
242.
               }
243.
               return bitmap;
244.
           }
245.
           @Override
           public void onDestroy() {
246.
247.
              //停止计时器
248.
              handler3.removeCallbacks(runnable2);
249.
               super.onDestroy();
250.
251.
      }
252. </span>
```

最后别忘记添加权限:

```
[html]
```

说明:

[java]

```
    o1. <span style="font-size:14px;">criteria.setAccuracy(Criteria.ACCURACY_LOW); //低精度 高精度: ACCURACY_FINE
    02. 使用网络定位要选择低精度,如果选择了高精度它会第一选择为: GPS定位,没有开启GPS定位,才会使用网络定位。
    03. </span>
```

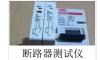


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