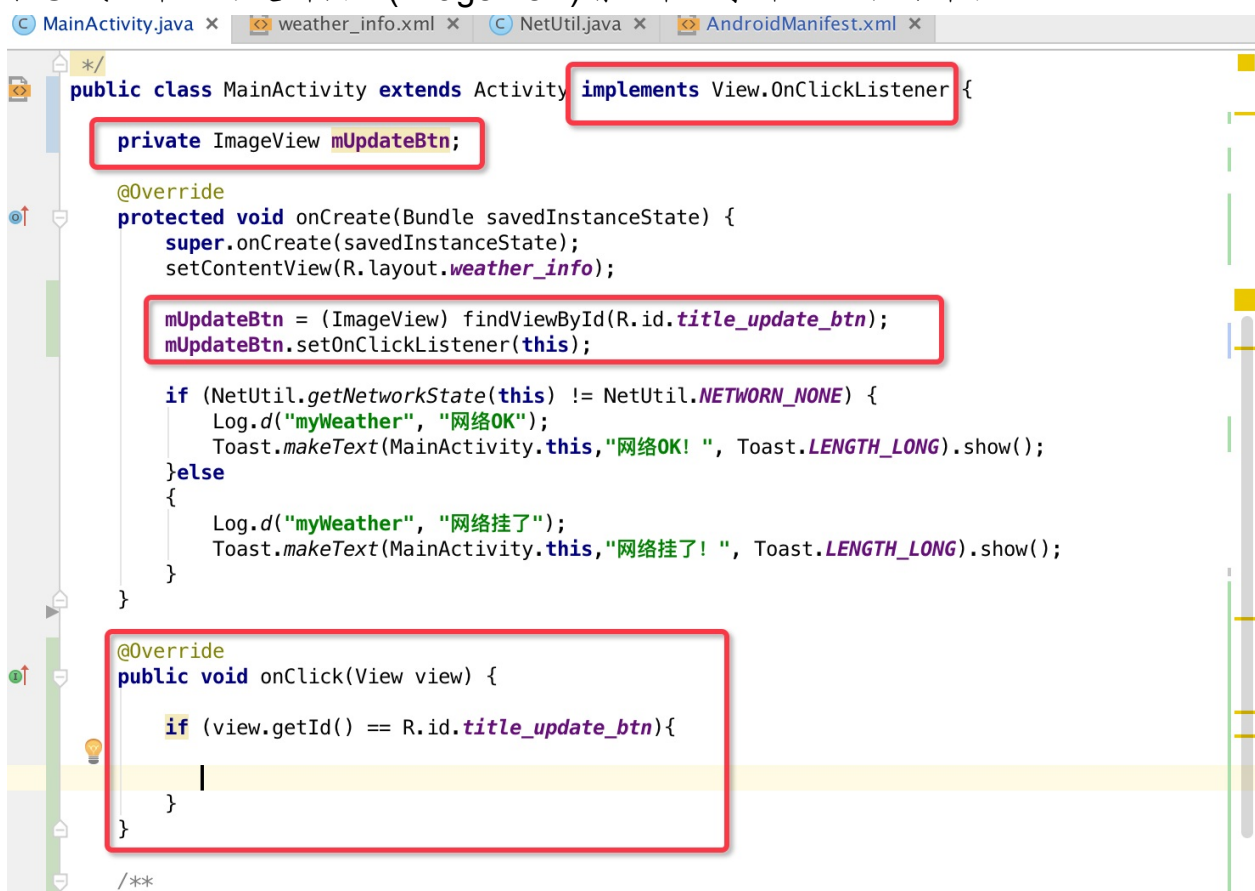


获取网络数据

主要步骤

1. 为更新按钮添加单击事件

在UI线程中，为更新按钮(ImageView)增加单击事件，如下图所示。



2. 从SharedPreferences中读取城市的id

通过SharedPreferences读取城市id，如果没有定义则缺省为101010100（北京城市ID）。

```
/**
 * Created by zhangqixun on 16/7/4.
 */
public class MainActivity extends Activity implements View.OnClickListener {

    private ImageView mUpdateBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.weather_info);

        mUpdateBtn = (ImageView) findViewById(R.id.title_update_btn);
        mUpdateBtn.setOnClickListener(this);

        if (NetUtil.getNetworkState(this) != NetUtil.NETWORK_NONE) {
            Log.d("myWeather", "网络OK");
            Toast.makeText(MainActivity.this, "网络OK!", Toast.LENGTH_LONG).show();
        } else {
            Log.d("myWeather", "网络挂了");
            Toast.makeText(MainActivity.this, "网络挂了!", Toast.LENGTH_LONG).show();
        }
    }

    @Override
    public void onClick(View view) {

        if (view.getId() == R.id.title_update_btn){

            SharedPreferences sharedPreferences = getSharedPreferences("config", MODE_PRIVATE);
            String cityCode = sharedPreferences.getString("main_city_code", "101010100");
            Log.d("myWeather", cityCode);

        }

    }
}
```

3. 使用**获取网络数据

```

/**
 *
 * @param cityCode
 */
private void queryWeatherCode(String cityCode) {
    final String address = "http://wthrcdn.etouch.cn/WeatherApi?citykey=" + cityCode;
    Log.d("myWeather", address);
    new Thread(new Runnable() {
        @Override
        public void run() {
            HttpURLConnection con=null;
            try{
                URL url = new URL(address);
                con = (HttpURLConnection)url.openConnection();
                con.setRequestMethod("GET");
                con.setConnectTimeout(8000);
                con.setReadTimeout(8000);
                InputStream in = con.getInputStream();
                BufferedReader reader = new BufferedReader(new InputStreamReader(in));
                StringBuilder response = new StringBuilder();
                String str;
                while((str=reader.readLine()) != null){
                    response.append(str);
                    Log.d("myWeather", str);
                }
                String responseStr=response.toString();
                Log.d("myWeather", responseStr);
            }catch (Exception e){
                e.printStackTrace();
            }finally {
                if(con != null){
                    con.disconnect();
                }
            }
        }
    }).start();
}

```

```

@Override
public void onClick(View view) {

    if (view.getId() == R.id.title_update_btn){

        SharedPreferences sharedPreferences = getSharedPreferences("config", MODE_PRIVATE);
        String cityCode = sharedPreferences.getString("main_city_code","101010100");
        Log.d("myWeather",cityCode);

        if (NetUtil.getNetworkState(this) != NetUtil.NETWORK_NONE) {
            Log.d("myWeather", "网络OK");
            queryWeatherCode(cityCode);
        }else
        {
            Log.d("myWeather", "网络挂了");
            Toast.makeText(MainActivity.this,"网络挂了! ",Toast.LENGTH_LONG).show();
        }
    }
}

```

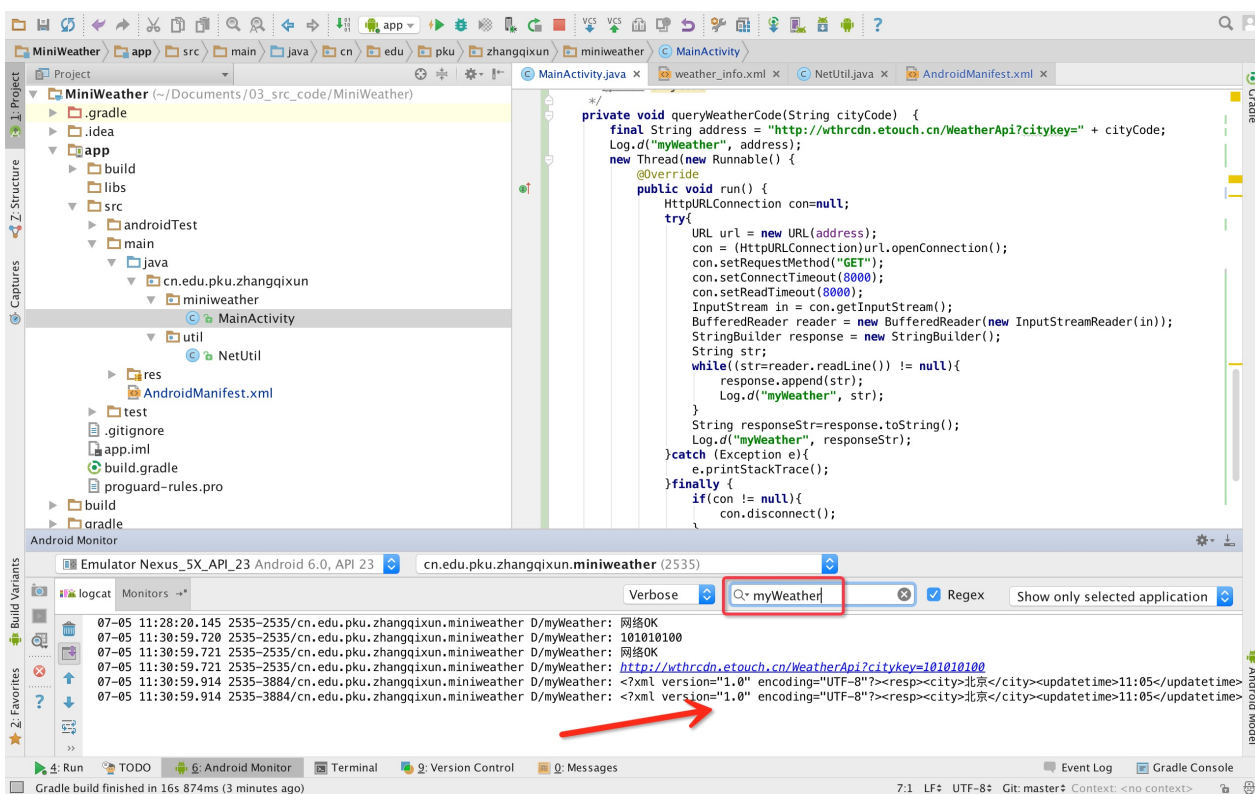
4. 在AndroidManifest.xml文件中增加访问INTERNET的权限



6. 程序运行结果



单击右上角更新按钮。



关键程序代码

```
package cn.edu.pku.zhangqixun.miniweather;

import android.app.Activity;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.ImageView;
import android.widget.Toast;

import java.io.BufferedReader;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;

import cn.edu.pku.zhangqixun.util.NetUtil;
```

```
/**
 * Created by zhangqixun on 16/7/4.
 */
public class MainActivity extends Activity implements View.OnClickListener {

    private ImageView mUpdateBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.weather_info);

        mUpdateBtn = (ImageView) findViewById(R.id.title_update_btn);
        mUpdateBtn.setOnClickListener(this);

        if (NetUtil.getNetworkState(this) != NetUtil.NETWORK_NONE) {
            Log.d("myWeather", "网络OK");
            Toast.makeText(MainActivity.this, "网络OK!", Toast.LENGTH_LONG).show();
        } else {
            {
                Log.d("myWeather", "网络挂了");
                Toast.makeText(MainActivity.this, "网络挂了!", Toast.LENGTH_LONG).show();
            }
        }
    }

    @Override
    public void onClick(View view) {

        if (view.getId() == R.id.title_update_btn){

            SharedPreferences sharedPreferences = getSharedPreferences("config", MODE_PRIVATE);
            String cityCode = sharedPreferences.getString("main_city_code", "101010100");
```

```
        Log.d("myWeather",cityCode);

        if (NetUtil.getNetworkState(this) != NetUtil.NETWORK
_NONE) {
            Log.d("myWeather", "网络OK");
            queryWeatherCode(cityCode);
        }else
        {
            Log.d("myWeather", "网络挂了");
            Toast.makeText(MainActivity.this,"网络挂了!",Toas
t.LENGTH_LONG).show();
        }
    }

    /**
     *
     * @param cityCode
     */
    private void queryWeatherCode(String cityCode) {
        final String address = "http://wthrcdn.etouch.cn/Weather
Api?citykey=" + cityCode;
        Log.d("myWeather", address);
        new Thread(new Runnable() {
            @Override
            public void run() {
                HttpURLConnection con=null;
                try{
                    URL url = new URL(address);
                    con = (HttpURLConnection)url.openConnection(
);

                    con.setRequestMethod("GET");
                    con.setConnectTimeout(8000);
                    con.setReadTimeout(8000);
                    InputStream in = con.getInputStream();
                    BufferedReader reader = new BufferedReader(n
ew InputStreamReader(in));
                    StringBuilder response = new StringBuilder()
;
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        }).start();
    }
}
```

```
        String str;
        while((str=reader.readLine()) != null){
            response.append(str);
            Log.d("myWeather", str);
        }
        String responseStr=response.toString();
        Log.d("myWeather", responseStr);
    }catch (Exception e){
        e.printStackTrace();
    }finally {
        if(con != null){
            con.disconnect();
        }
    }
}
}).start();
}

}
```