HttpClient.java

```
1 package Http;
3 import java.io.DataInputStream;
 4 import java.io.DataOutputStream;
5 import java.io.EOFException;
 6 import java.io.FileNotFoundException;
7 import java.io.FileOutputStream;
8 import java.io.IOException;
9 import java.io.PrintWriter;
10 import java.net.Socket;
11 import java.net.UnknownHostException;
13 public class HttpClient {
14
                                             //保存从客户端到Web服务器的HTTP请求报文
      String request = null;
15
      String serverDomainName = null;
                                             //Web服务器的域名
16
      int srvProt = -1;
                                              //Web服务器的端口
17
      Socket socket = null;
                                             //Socket对象
18
      PrintWriter outToServer = null;
                                             //向Web服务器发送HTTP请求报文的输出流
19
                                             //读取Web服务器HTTP响应报文内容的输入流
     DataInputStream inFromServer = null;
20
     DataOutputStream outToFile = null;
                                             //将Web服务器HTTP响应报文内容写入另外一个文本文件的输出流
21
2.2
      * 返回Web服务器域名
23
2.4
      * @return the serverDomainName
25
26
      public String getServerDomainName() {
27
         return serverDomainName;
2.8
29
     /**
30
       * 设置Web服务器域名
31
32
      * @param serverDomainName the serverDomainName to set
33
     public void setServerDomainName(String serverDomainName) {
34
35
          this.serverDomainName = serverDomainName;
36
37
38
      /**
      * 返回Web服务器端口号
39
      * @return the srvProt
40
41
42
      public int getSrvProt() {
43
        return srvProt;
44
45
46
47
       * 设置Web服务器端口号
       * @param srvProt the srvProt to set
48
49
50
      public void setSrvProt(int srvProt) {
51
         this.srvProt = srvProt;
52
      }
53
54
      /**
55
      * 判断是否连接到服务器
56
      * @return the connected
57
58
59
      public boolean isConnected() {
60
         if(this.socket == null) return false;
61
          else return this.socket.isConnected();
62
63
      /**
64
       * 设置HTTP请求报文的内容
65
66
      * @param request the request to set
67
68
      public void setRequest(String request) {
69
         this.request = request;
70
71
```

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```
/**
 72
 73
        * 构造函数
 74
        * @param serverDomainName: 服务器域名
 75
        * @param srvProt: 服务器端口
 76
 77
       public HttpClient(String serverDomainName,int srvProt){
 78
           this.serverDomainName = serverDomainName;
 79
           this.srvProt = srvProt;
 80
       }
 81
        * 连接到服务器
 82
 83
       public void Connect(){
 84
 85
           if(!isConnected()){
 86
               try {
                                                                                             //创
 87
                   this.socket = new Socket(serverDomainName,srvProt);
   建Socket对象并连接到指定的域名和端口
 88
                   outToServer = new PrintWriter(this.socket.getOutputStream() ,true);
 89
                   inFromServer = new DataInputStream(this.socket.getInputStream());
 90
               } catch (UnknownHostException e) {
 91
                   e.printStackTrace();
 92
               } catch (IOException e) {
 93
                   e.printStackTrace();
 94
 95
           }
 96
       }
 97
 98
        * 断开与服务器的连接
 99
100
       public void Disconnect(){
101
           if(isConnected()){
102
               try {
103
                   this.inFromServer.close();
104
                   this.outToServer.close();
105
                   this.socket.close();
106
               } catch (IOException e) {
107
                   e.printStackTrace();
108
109
       }
110
111
        * 向服务器发送HTTP请求报文
112
113
114
       public void sendHttptRequest(){
115
           outToServer.println(this.request);
116
       /**
117
          得到服务器的HTTP响应报文并保存在文件里
118
119
        * @param fileName: 文件名
120
121
       public void getHttpResponse(String fileName) {
122
123
               outToFile = new DataOutputStream(new FileOutputStream(fileName));
124
               Byte b = inFromServer.readByte();
                                                       //从服务器的应答中读入一个字节
125
               while(true) {
126
                   outToFile.writeByte(b);
                                                        //将该字节写入到文件里
127
                   b = inFromServer.readByte();
128
               }
129
           } catch(EOFException e){
                                                        //当到了服务器应答的末尾,会抛出EOFException异常
               System.out.println("End of Response!");
130
131
           }catch (FileNotFoundException e) {
132
               e.printStackTrace();
133
           } catch (IOException e) {
134
               e.printStackTrace();
135
           }finally{
136
               try {
                                                        //美闭文件输出流
137
                   outToFile.close();
138
               } catch (IOException e) {
139
                   e.printStackTrace();
140
           }
141
```

HttpClient.java

```
}
142
143
144
     public static void main(String[] args) {
           HttpClient httpClient = new HttpClient("www.163.com",80);
145
146
          httpClient.Connect();
147
          String request = "GET / HTTP/1.0\r\n" +
                                                                 //构造HTTP请求报文的首部
                           "Host: www.163.com\r\n" +
148
149
                           "Connection: close\r\ +
150
                           "User-agent: Mozilla/4.0\r\ +
151
                           "Accept-Language: zh-cn\r\n" +
                           "Accept-Charset: GB2312,uft-8\r\ +
152
                           "\r\n";
153
154
          httpClient.setRequest(request);
155
           httpClient.sendHttptRequest();
                                                                 //向服务器发出HTTP请求报文
           httpClient.getHttpResponse("response.txt");
                                                                 //得到Web服务器的响应,并写入当前目录下
156
  的文件
157
          httpClient.Disconnect();
                                                                 //断开连接
158
           System.out.println("OK");
159
       }
160
161 }
162
```