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## C#爬虫 (01): HttpClient网络HTTP请求和相应

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- 二、HttpClient的使用
  - 。 HttpClient 获取图片并保存到本机
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HttpClient 类 (System.Net.Http) | Microsoft Docs

C# HttpClient设置cookies的两种办法 - 深入学习ing - 博客园 (cnblogs.com)

C# 使用HttpClient获取cookie Stay Hungry-CSDN博客

## 一、概述

Net4.5以上的提供基本类,用于发送 HTTP 请求和接收来自通过 URI 确认的资源的 HTTP 响应。

HttpClient是一个高级 API, 用于包装其运行的每个平台上可用的较低级别功能。

// HttpClient is intended to be instantiated once per application, rather than
static readonly HttpClient client = new HttpClient();

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```

```
static async Task Main()
{
    // Call asynchronous network methods in a try/catch block to handle exception
    try
    {
        HttpResponseMessage response = await client.GetAsync("http://www.contoso.c
        response.EnsureSuccessStatusCode();
        string responseBody = await response.Content.ReadAsStringAsync();
        // Above three lines can be replaced with new helper method below
        // string responseBody = await client.GetStringAsync(uri);

        Console.WriteLine(responseBody);
    }
    catch(HttpRequestException e)
    {
        Console.WriteLine("\nException Caught!");
        Console.WriteLine("Message :{0} ",e.Message);
    }
}
```

## 二、HttpClient的使用

- 1.使用HttpClient调用Oauth的授权接口获取access\_token
- 1) OAuth使用的密码式
- 2) 获取到access token后才进行下一步
- 2.带着access\_token调用接口
- 1) hearder上添加bearer方式的access\_token
- 2) 调用接口确保成功获取到返回的结果

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```
try
{
    string host = ConfigurationManager.AppSettings["api host"];
    string username = ConfigurationManager.AppSettings["api username"];
    string password = ConfigurationManager.AppSettings["api password"];
   HttpClient httpClient = new HttpClient();
   // 设置请求头信息
   httpClient.DefaultRequestHeaders.Add("Host", host);
   httpClient.DefaultRequestHeaders.Add("Method", "Post");
   httpClient.DefaultRequestHeaders.Add("KeepAlive", "false");  // HTTP KeepA
   httpClient.DefaultRequestHeaders.Add("UserAgent", "Mozilla/5.0 (Windows NT 6
   //获取token
    var tokenResponse = httpClient.PostAsync("http://" + host + "/token", new F
               {"grant type", "password"},
               {"username", username},
               {"password", password}
           }));
   tokenResponse.Wait();
   tokenResponse.Result.EnsureSuccessStatusCode();
    var tokenRes = tokenResponse.Result.Content.ReadAsStringAsync();
   tokenRes.Wait();
   var token = Newtonsoft.Json.Ling.JObject.Parse(tokenRes.Result);
    var access token = token["access token"].ToString();
    // 调用接口发起POST请求
    var authenticationHeaderValue = new AuthenticationHeaderValue("bearer", acc
   httpClient.DefaultRequestHeaders.Authorization = authenticationHeaderValue;
var content = new StringContent(parameter);
    content.Headers.ContentType = new MediaTypeHeaderValue("application/json");
    var response = httpClient.PostAsync("http://" + host + "/" + api address, c
    response.Wait();
    response.Result.EnsureSuccessStatusCode();
   var res = response.Result.Content.ReadAsStringAsync();
    res.Wait();return Newtonsoft.Json.JsonConvert.DeserializeObject(res.Result)
```

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```
}
catch (Exception ex)
{
    return ResultEx.Init(ex.Message);
}
```

### HttpClient 获取图片并保存到本机

```
class Program
    static void Main()
        //图片路径: <a href="https://img.infinitynewtab.com/wallpaper/1.jpg">https://img.infinitynewtab.com/wallpaper/1.jpg</a>
        string imgSourceURL = "https://img.infinitynewtab.com/wallpaper/";
        DownloadImags(imgSourceURL).Wait();
    private static async Task DownloadImags(string url)
        var client = new HttpClient();
        System.IO.FileStream fs;
        int a = 1;
        //文件名: 序号+.jpg。可指定范围,以下是获取100.jpg~500.jpg。
        for (int i = 100; i <= 500; i++)
             var uri = new Uri(Uri.EscapeUriString(url+i.ToString()+".jpg"));
             byte[] urlContents = await client.GetByteArrayAsync(uri);
            fs = new System.IO.FileStream(AppDomain.CurrentDomain.BaseDirectory
            fs.Write(urlContents, 0, urlContents.Length);
            Console.WriteLine(a++);
```

### 以下为封装的类库

```
using Newtonsoft.Json;
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Net;
using System.Net.Http;
using System.Net.Http.Headers;
using System.Text;
using System.Threading.Tasks;
using System.Xml.Serialization;
public class HttpClientHelpClass
   ///
   /// get请求
   ///
   ///
   ///
   public static string GetResponse(string url, out string statusCode)
        if (url.StartsWith("https"))
            System.Net.ServicePointManager.SecurityProtocol = SecurityProtocolT
        var httpClient = new HttpClient();
        httpClient.DefaultRequestHeaders.Accept.Add(
                                                          new MediaTypeWithQual
        HttpResponseMessage response = httpClient.GetAsync(url).Result;
        statusCode = response.StatusCode.ToString();
        if (response.IsSuccessStatusCode)
            string result = response.Content.ReadAsStringAsync().Result;
            return result;
        return null;
   public static string RestfulGet(string url)
```

```
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    HttpWebRequest request = WebRequest.Create(url) as HttpWebRequest;
    // Get response
    using (HttpWebResponse response = request.GetResponse() as HttpWebRespo
        // Get the response stream
        StreamReader reader = new StreamReader(response.GetResponseStream()
        // Console application output
        return reader.ReadToEnd();
public static T GetResponse(string url)
  where T : class, new()
   if (url.StartsWith("https"))
        System.Net.ServicePointManager.SecurityProtocol = SecurityProtocolT
   var httpClient = new HttpClient();
   httpClient.DefaultRequestHeaders.Accept.Add( new MediaTypeWithOuality
    HttpResponseMessage response = httpClient.GetAsync(url).Result;
   T result = default(T);
    if (response.IsSuccessStatusCode)
        Task<string> t = response.Content.ReadAsStringAsync();
        string s = t.Result;
        result = JsonConvert.DeserializeObject(s);
    return result;
}
///
/// post请求
///
///
/// post数据
///
public static string PostResponse(string url, string postData, out string s
```

```
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    if (url.StartsWith("https"))
        System.Net.ServicePointManager.SecurityProtocol = SecurityProtocolT
    HttpContent httpContent = new StringContent(postData);
    httpContent.Headers.ContentType = new MediaTypeHeaderValue("application
    httpContent.Headers.ContentType.CharSet = "utf-8";
    HttpClient httpClient = new HttpClient();
    //httpClient..setParameter(HttpMethodParams.HTTP CONTENT CHARSET, "utf-
    HttpResponseMessage response = httpClient.PostAsync(url, httpContent).R
    statusCode = response.StatusCode.ToString();
    if (response.IsSuccessStatusCode)
        string result = response.Content.ReadAsStringAsync().Result;
        return result;
    return null;
///
/// 发起post请求
///
///
/// url
/// post数据
///
public static T PostResponse(string url, string postData)
```

System.Net.ServicePointManager.SecurityProtocol = SecurityProtocolT

httpContent.Headers.ContentType = new MediaTypeHeaderValue("application

HttpContent httpContent = new StringContent(postData);

HttpClient httpClient = new HttpClient();

where T : class, new()

if (url.StartsWith("https"))

```
C#爬虫(01): HttpClient网络HTTP请求和相应 - springsnow - 博客园
    T result = default(T);
    HttpResponseMessage response = httpClient.PostAsync(url, httpContent).R
    if (response.IsSuccessStatusCode)
        Task<string> t = response.Content.ReadAsStringAsync();
        string s = t.Result;
        result = JsonConvert.DeserializeObject(s);
    return result;
///
/// 反序列化Xml
///
///
///
///
public static T XmlDeserialize(string xmlString)
    where T : class, new()
{
    try
        XmlSerializer ser = new XmlSerializer(typeof(T));
        using (StringReader reader = new StringReader(xmlString))
            return (T)ser.Deserialize(reader);
    catch (Exception ex)
        throw new Exception("XmlDeserialize发生异常: xmlString:" + xmlString
public static string PostResponse(string url, string postData, string token
```

```
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    if (url.StartsWith("https"))
        System.Net.ServicePointManager.SecurityProtocol = SecurityProtocolT
    HttpContent httpContent = new StringContent(postData);
    httpContent.Headers.ContentType = new MediaTypeHeaderValue("application
    httpContent.Headers.ContentType.CharSet = "utf-8";
    httpContent.Headers.Add("token", token);
    httpContent.Headers.Add("appId", appId);
    httpContent.Headers.Add("serviceURL", serviceURL);
    HttpClient httpClient = new HttpClient();
    //httpClient..setParameter(HttpMethodParams.HTTP CONTENT CHARSET, "utf-
    HttpResponseMessage response = httpClient.PostAsync(url, httpContent).R
    statusCode = response.StatusCode.ToString();
    if (response.IsSuccessStatusCode)
        string result = response.Content.ReadAsStringAsync().Result;
        return result;
    return null;
///
/// 修改API
///
///
///
///
public static string KongPatchResponse(string url, string postData)
    var httpWebRequest = (HttpWebRequest)WebRequest.Create(url);
```

httpWebRequest.ContentType = "application/x-www-form-urlencoded";

httpWebRequest.Method = "PATCH";

```
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    byte[] btBodys = Encoding.UTF8.GetBytes(postData);
    httpWebRequest.ContentLength = btBodys.Length;
    httpWebRequest.GetRequestStream().Write(btBodys, 0, btBodys.Length);
    HttpWebResponse httpWebResponse = (HttpWebResponse)httpWebRequest.GetRe
    var streamReader = new StreamReader(httpWebResponse.GetResponseStream()
    string responseContent = streamReader.ReadToEnd();
    httpWebResponse.Close();
    streamReader.Close();
    httpWebRequest.Abort();
    httpWebResponse.Close();
    return responseContent;
///
/// 创建API
///
///
///
///
public static string KongAddResponse(string url, string postData)
   if (url.StartsWith("https"))
        ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls;
    HttpContent httpContent = new StringContent(postData);
    httpContent.Headers.ContentType = new MediaTypeHeaderValue("application
    var httpClient = new HttpClient();
    HttpResponseMessage response = httpClient.PostAsync(url, httpContent).R
    if (response.IsSuccessStatusCode)
        string result = response.Content.ReadAsStringAsync().Result;
        return result;
    return null;
///
/// 删除API
```

```
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```

```
///
///
///
public static bool KongDeleteResponse(string url)
    if (url.StartsWith("https"))
        ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls;
    var httpClient = new HttpClient();
    HttpResponseMessage response = httpClient.DeleteAsync(url).Result;
    return response.IsSuccessStatusCode;
///
/// 修改或者更改API
///
///
///
///
public static string KongPutResponse(string url, string postData)
    if (url.StartsWith("https"))
        ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls;
    HttpContent httpContent = new StringContent(postData);
    httpContent.Headers.ContentType = new MediaTypeHeaderValue("application
    var httpClient = new HttpClient();
    HttpResponseMessage response = httpClient.PutAsync(url, httpContent).Re
    if (response.IsSuccessStatusCode)
        string result = response.Content.ReadAsStringAsync().Result;
        return result;
    return null;
///
/// 检索API
///
```

```
C#爬虫(01): HttpClient网络HTTP请求和相应 - springsnow - 博客园
         ///
         ///
         public static string KongSerchResponse(string url)
             if (url.StartsWith("https"))
                 ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls;
            var httpClient = new HttpClient();
             HttpResponseMessage response = httpClient.GetAsync(url).Result;
             if (response.IsSuccessStatusCode)
                 string result = response.Content.ReadAsStringAsync().Result;
                 return result;
             return null;
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