

Re: how can I change this get code to post code

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.vb/2007-09/msg00137.html>

- *From:* cj <cj@xxxxxxxxxxxxxx>
 - *Date:* Tue, 04 Sep 2007 15:41:23 -0400
-

Thanks Steven, I think I'm good for now. Priorities have changed again here and I'm now on something else but I'm sure I'll be back to this again later on.

cj

Steven Cheng[MSFT] wrote:

Thanks for your reply Cj,

Let's focus on the process you mentioned here first:

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Now to understand better the changes I need to make. This might be obvious to you but it isn't to me so let me make sure I understand what we are doing. In a get I didn't write anything but in a post I have to so that is why the streamwriter is required. Makes sense I hope I'm right. So `sw=new streamwriter(req.getrequeststream(), encoding.utf8)` is creating a streamwriter with the output of it being `req.getrequeststream`. Then `sw.write(postdata)` is putting the postdata into the req. But nothing has actually been sent to the jsp page yet. Right? Now when we run `rep=req.getresponse()` the postdata that was put in the web request req is now being sent to the jsp page and it's reply is being stored in rep. We are now ready to read the response from rep etc. Do I understand this process correctly?

=====

Yes, you've got them correctly. Let me further summary it for your reference:

** For HTTP GET method, you do not send any data in HTTP request's message body, but only append some simple text data(name=value pairs) in the url querystring ([http://\[url\]?param1=value1¶m2=value2.....](http://[url]?param1=value1¶m2=value2.....)). And when you use `httpWebRequest` to send GET request, you do not need to use `StreamWriter` to open the "RequestStream" or write data into it(just append them in url is enough)

** For HTTP POST method, you do not need to use url querystring for additional data. You can use the HTTP message body. And in `.net HttpWebRequest` class, you simply open the "RequestStream" and write the data into it and close it(before you send the request)

** When you write the data into `WebRequest's "RequestStream"` and close it, the data(even the request) still hasn't been send. It is only when you call "`WebRequest.GetResponse`"

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method that the actually http communication between client and server starts. Also, after the GetResponse method ends, the response data should has been arrived client-side cache and you can use "Response" and "ResponseStream" to read them.

Another question you mentioned:

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One last thing. Why do you use the url http://localhost:58549/post_handler.ashx ? Is this some kind of loop back that I can use for testing? I've never heard of an ashx file.

=====

"http://localhost:58549/post_handler.ashx is not a built-in loopback, it is a test handler in my test project(I normally build some simple test page or handler for such testing). And for ASP.NET web page, since it has viewstate validation for post request(postback), you need to do additional work if you want to programmatically use WebRequest to send post message to aspx page. Therefore, I use a "ashx" httphandler here for test since it doesn't have viewstate validation. The ashx "simple handler" is a built-in component type you can use in Visual Studio ASP.NET 2.0 project. If you have interests, you can create one through the following steps in your VS 2005/ASP.NET project:

** in project solution explorer, right click project/web site node and chooe "add--new item"

** In the "new item" dialog, choose "Generic Handler" component and click OK to create one

** It is just an httphandler, but since "ashx" extension has been registered in IIS already, you do not need to do IIS registering work and just configure it in web.config file and you can use such handler

If you still have anything unclear, please feel free to let me know. We're always willing and pleased to help others resolve their problem and make the community better and also need and appreciate your understanding and support to us!

Sincerely,

Steven Cheng

Microsoft MSDN Online Support Lead

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Date: Fri, 31 Aug 2007 09:07:30 -0400

From: cj <cj@xxxxxxxxxxxxxx>

User-Agent: Thunderbird 2.0.0.6 (Windows/20070728)

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Thank you Steven

First, Yes it was Cor that said something about the url that I take it meant I shouldn't have posted it. Sorry I got confused on the replies.

Second, I did read your post and article several times and browsed through other parts of the MSDN site you pointed me to but apparently I'm not quite as up to speed on this subject as many of you are and I still couldn't figure out what to change in my program. As for you not sending data I didn't know what you meant by "without any data in request message". It never crossed my mind that you could post with sending data. I can't imagine why such a thing would be done.

Please don't get upset. Just so you understand when I look at the code I sent you and then at your code I see you have much more code than I do. When I start going through it I find that you changed my variable names--for instance webresp to rep--and that you've broken out the streamreader code. Where I had

respstr = new io.streamreader(webresp.getresponsestream()).readtoend

you have

```
dim sr as streamreader  
dim strcontent as string  
sr=new streamreader(rep.getresponsestream())  
strcontent=sr.readtoend()
```

For you this might be easy but for me all this makes it hard for me to quickly say, oh, the new parts of the code I needed are

webreq.contenttype="application/x-www-form-urlencoded"

```
then sw=new streamwriter(req.getrequeststream(), encoding.utf8)  
sw.write(postdata)  
sw.close
```

Now to understand better the changes I need to make. This might be obvious to you but it isn't to me so let me make sure I understand what we are doing. In a get I didn't write anything but in a post I have to so that is why the streamwriter is required. Makes sense I hope I'm right. So sw=new streamwriter(req.getrequeststream(), encoding.utf8) is creating a streamwriter with the output of it being req.getrequeststream. Then sw.write(postdata) is putting the postdata into the req. But nothing has actually been sent to the jsp page yet. Right? Now when we run rep=req.getResponse() the postdata that was put in the web request req is now being sent to the jsp page and it's reply is being stored in rep. We are now ready to read the response from rep etc. Do I understand this process correctly?

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I know it's hard typing all this back in forth. It would have taken 5 minutes if you was standing here but I don't have anyone that I can grab like that for a 5 minute discussion. I appreciate your help.

One last thing. Why do you use the url http://localhost:58549/post_handler.ashx ? Is this some kind of loop back that I can use for testing? I've never heard of an ashx file.

Ok I'm going to send this now and then I'm going to play with the code some more and see if I can get it working.

Steven Cheng[MSFT] wrote:

Thanks for your reply Cj.

First, I have never added comments against the url you added, I think

maybe

Cor Ligthert have some suggestion on this(not Steven Cheng).

Second, about the test code snippet I posted, I've mentioned that it is

a

simple test which post no data(no name&value pairs. And in the article

I

pasted eariler, there are complete code snippets about add name & value pairs. I don't think you've ever read any of the articles I've provided. BTW, if you do have complain on those articles or on me, please feel

free

to let me know, then, I should not paste them next time.

Well, for your scenario, if you want to translate the full url (GET

method)

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to POST one:

"http://foo.com/Test.jsp?user=sam&field1=&field2=testing"

you can use the following code:

This time, I used the exact url you've posted, you can freely
to change

it

(no matter your target url is ".dll" or ".jsp")

Private Sub Button3_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles Button3.Click

Dim req As HttpWebRequest

Dim rep As HttpWebResponse

Dim sr As StreamReader

Dim strContent As String

Dim postData As String

Dim bytes() As Byte

Dim sw As StreamWriter

Dim url As String

url = "http://localhost:58549/post_handler.aspx"

postData = "user=sam&field1=&field2=testing"

req = WebRequest.Create(url)

req.Method = "POST"

req.ContentType = "application/x-www-form-urlencoded"

sw = New StreamWriter(req.GetRequestStream(),

Encoding.UTF8)

sw.Write(postData)

sw.Close()

rep = req.GetResponse()

sr = New StreamReader(rep.GetResponseStream())

strContent = sr.ReadToEnd()

sr.Close()

rep.Close()

Me.TextBox1.Text = strContent

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always some strange ideas.
As Herfried made me
yesterday attend on is

it

probably better next time to
remove the part with the
original URL in the text
before you send.

I am not saying anything
about cj. only that it gives
me strange ideas to start an
Internet procedure.

:~)

Cor

"Steven Cheng[MSFT]"
<stcheng@xxxxxxxxxxxxxxxxxxxx>
schreef in bericht
news:Pu0Fqqr6HHA.360@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hi Cj.

As for the
"how to
change code
to post
code"
question, do
you mean

you

want
to make the
httpwebrequest
component
send a
http"POST"
message to

target

server
endpoint?

If this is the

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case, you
can simply
set
HttpRequest.Method

property

to

"POST"

#HttpRequest.Method
Property

<https://msdn2.microsoft.com/en-us/library/system.net.httpwebrequest.method.a>

spx

and here is
a simple
test method
which use
webrequest
to send
HTTP

POST

request to
the
website(without
any data in
request
message):

Private Sub
Button2_Click(ByVal
sender As
System.Object,
ByVal e As
System.EventArgs)
Handles
Button2.Click
Dim req As
HttpRequest
Dim rep As
HttpWebResponse
Dim sr As
StreamReader
Dim

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strContent
As String

Dim url As
String

url =
"http://www.asp.net

req =
WebRequest.Create(url)

req.Method
= "POST"
req.ContentLength
= 0

rep =
req.GetResponse()

sr = New
StreamReader(rep.GetResponseStream())

strContent =
sr.ReadToEnd()

sr.Close()
rep.Close()

Me.TextBox1.Text
= strContent

End Sub
here are
some web
articles
introducing
posting data
with
webrequest

and

have
exmaples
on add
some

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parameters
(if you want
to send
some data

with

the post
request)

#POSTing
Data with
ASP.NET

<http://authors.aspalliance.com/stevesmith/articles/netscape2.asp>

#Create
dynamic
data and
post to a
server

<http://google.com/answers/threadview?id=174465>

Hope this
helps some.

Sincerely.

Steven
Cheng

Microsoft
MSDN
Online
Support
Lead