

Re: MD5 conversion problem

Source:

<http://www.derkeiler.com/Newsgroups/microsoft.public.dotnet.framework.aspnet.security/2004-08/0342.html>

From: Peter Afonin (*pva_at_speakeasy.net*)

Date: 08/27/04

Date: Thu, 26 Aug 2004 23:40:37 -0700

Joe, I'm connecting an online store to the payment system. I need to pass this string to this payment gateway, and it will return me another string back, confirming that the payment was successful.

I contacted the techsupport of this gateway. They said that I don't have to convert my string to Base64. I need to convert every byte to 16-bit number or something like this. They don't use ASP.Net, so couldn't give me an exact code. They said that it should look approximately like this:

```
StringBuilder sb = new StringBuilder();

    for (int i=0;i<hash.Length;i++)
        sb.Append(hash[i].ToString("x").PadLeft(2,'0'));

    return sb.ToString();
```

How it should look in VB.Net?

Thank you,

Peter

"Joe Kaplan (MVP – ADSI)" <joseph.e.kaplan@removethis.accenture.com> wrote in message news:OJQ8p\$%23iEHA.3988@tk2msftngp13.phx.gbl...

> *What is giving you a "bad CRC" error? Is it the code below? That looks like it should just return a base64 encoded MD5 hash of whatever string was provided.*

>

> *It isn't clear to me what you are trying to do or what the input is in the funtion.*

>

> *Joe K.*

>

> *"Peter Afonin" <pva@speakeasy.net> wrote in message news:eQeJri%23iEHA.3612@TK2MSFTNGP12.phx.gbl...>> Thank you, Joe.*

>>
>> *I've tried to change it like this:*
>>
>> *Dim hashedBytes As Byte()*
>> *Dim md5 As New MD5CryptoServiceProvider*
>> *Dim encoder As new UTF8Encoding*
>> *hashedBytes = md5.ComputeHash(encoder.GetBytes(sCRC))*
>> *sCRC = Convert.ToBase64String(md5.ComputeHash(hashedBytes))*
>> *Me.crc.Value = sCRC*
>>
>> *Yes, the output string has changed:*
>>
>> *'<input type=hidden name=crc value="35r0XmeFIOXs5evTQM0q+w==">'+*
>>
>> *But I'm still getting a "bad crc" error.*
>>
>> *Peter*
>>
>> *"Joe Kaplan (MVP – ADSI)" <joseph.e.kaplan@removethis.accenture.com>*
wrote
>> *in message news:uoBsCL%23iEHA.4024@TK2MSFTNGP09.phx.gbl...*
>>> *Why don't you try Convert.ToBase64String instead? Typically, you*
encode
>>> *binary data as a string with either Base64 or hex string encoding.*
>>>
>>> *Also, be careful about using ASCII encoding to convert the input*
string
>> *to*
>>> *binary. If it includes any non-ASCII characters, you'll be throwing*
data
>>> *away. UTF8 is safer. Whatever you do, make sure you always compute*
the
>> *hash*
>>> *the same way if you are going to be using it for a comparison.*
>>>
>>> *HTH,*
>>>
>>> *Joe K.*
>>>
>>> *"Peter Afonin" <pva@speakeasy.net> wrote in message*
>>> *news:eJWO769iEHA.3928@TK2MSFTNGP11.phx.gbl...*
>>>> *Hello,*
>>>>
>>>> *I'm struggling with the string conversion to MD5 which I've never*
user
>>>> *before.*
>>>>
>>>> *I have a string that I need to encode which looks approximately like*
this:
>>>>
>>>>

> >
"pva:0.05:101214:pa7735tH:inv_desc=205308:shp_Email=petera_gudzon.net:lang
> > > >
> > >
> >
>
=ru:shp_PaymentNo=20040825205308:shp_UserID=pva:shp_Price=2.95:shp_HostPlan=
> > > > *BU:shp_Term=2"*
> > > >
> > > > *I'm doing it this way:*
> > > >
> > > > *Dim hashedBytes As Byte()*
> > > > *Dim md5 As New MD5CryptoServiceProvider*
> > > > *Dim encoder As New ASCIIEncoding*
> > > > *hashedBytes = md5.ComputeHash(encoder.GetBytes(sCRC))*
> > > > *Dim sNewCRC as String =*
Convert.ToString(md5.ComputeHash(hashedBytes))
> > > >
> > > > *It doesn't work. When I see the output on the page where I pass this*
> > > *string,*
> > > > *it looks like this:*
> > > >
> > > > *'<input type=hidden name=crc value="System.Byte[]">'+*
> > > >
> > > > *I don't know exactly how it should look like, but probably not like*
> > > > *"System.Byte[]"*
> > > >
> > > > *I'm doing something wrong, but I don't know what.*
> > > >
> > > > *I would really appreciate your help.*
> > > >
> > > > *Thank you,*
> > > >
> > > > *Peter Afonin*
> > > >
> > > >
> >
> >
>
>
>
>