

RE: Need C# coding for MD5 Algorithm

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.general/2006-05/msg01126.html>

- *From:* johnknox@xxxxxxxxxxxxxxxxxxxxxxxx (John Kn [MS])
 - *Date:* Wed, 31 May 2006 15:31:02 GMT
-

Sanjay.C,

I researched and found information on the abstract class from which all implementations of the MD5 hash algorithm inherit using C#

I obtained this code from one our new sites:

```
*****  
*****
```

```
using System;  
using System.Security.Cryptography;  
using System.Text;  
  
class Example  
{  
    // Hash an input string and return the hash as  
    // a 32 character hexadecimal string.  
    static string getMd5Hash(string input)  
    {  
        // Create a new instance of the MD5CryptoServiceProvider object.  
        MD5 md5Hasher = MD5.Create();  
  
        // Convert the input string to a byte array and compute the hash.  
        byte[] data =  
            md5Hasher.ComputeHash(Encoding.Default.GetBytes(input));  
  
        // Create a new StringBuilder to collect the bytes  
        // and create a string.  
        StringBuilder sBuilder = new StringBuilder();  
  
        // Loop through each byte of the hashed data  
        // and format each one as a hexadecimal string.  
        for (int i = 0; i < data.Length; i++)  
        {  
            sBuilder.Append(data[i].ToString("x2"));  
        }  
  
        // Return the hexadecimal string.  
        return sBuilder.ToString();  
    }  
}
```

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```
}

// Verify a hash against a string.
static bool verifyMd5Hash(string input, string hash)
{
// Hash the input.
string hashOfInput = getMd5Hash(input);

// Create a StringComparison and compare the hashes.
StringComparer comparer = StringComparison.OrdinalIgnoreCase;

if (0 == comparer.Compare(hashOfInput, hash))
{
return true;
}
else
{
return false;
}
}

static void Main()
{
string source = "Hello World!";

string hash = getMd5Hash(source);

Console.WriteLine("The MD5 hash of " + source + " is: " + hash +
".");

Console.WriteLine("Verifying the hash...");

if (verifyMd5Hash(source, hash))
{
Console.WriteLine("The hashes are the same.");
}
else
{
Console.WriteLine("The hashes are not same.");
}

}
}
// This code example produces the following output:
//
// The MD5 hash of Hello World! is: ed076287532e86365e841e92bfc50d8c.
// Verifying the hash...
// The hashes are the same.
```

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Detailed information may be obtained from:

<http://msdn2.microsoft.com/en-us/library/system.security.cryptography.md5.aspx>

This is very new

From: "Charles" <vcharles2k@xxxxxxxx>
Newsgroups: microsoft.public.dotnet.general
Subject: Need C# coding for MD5 Algorithm
Date: 28 May 2006 23:30:18 -0700
Organization: <http://groups.google.com>
Lines: 12
Message-ID: <1148884218.690475.228040@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
NNTP-Posting-Host: 59.144.1.39
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
X-Trace: posting.google.com 1148884223 30921 127.0.0.1 (29 May 2006

06:30:23 GMT)

X-Complaints-To: groups-abuse@xxxxxxxx
NNTP-Posting-Date: Mon, 29 May 2006 06:30:23 +0000 (UTC)
User-Agent: G2/0.2
X-HTTP-UserAgent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET

CLR 1.1.4322),gzip(gfe),gzip(gfe)

Complaints-To: groups-abuse@xxxxxxxx
Injection-Info: i40g2000cwc.googlegroups.com; posting-host=59.144.1.39;
posting-account=5tSGPw0AAADHdEHPpCDvBXnWgd2fIHIO
Path:

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w.net!cw.net!news-FFM2.ecrc.de!news.glorb.com!postnews.google.com!i40g2000cw
c.googlegroups.com!not-for-mail

Xref: TK2MSFTNGXA01.phx.gbl microsoft.public.dotnet.general:196169
X-Tomcat-NG: microsoft.public.dotnet.general

Hi all,

I need C# code for Implementing MD5 Algorithm.. Hope all would have heard of MD5 Algorithm... Does any one have the C# coding for that Algorithm.. please Send... ITs URgent.....

Thanks In Advance to all.....

With Regards,

Sanjay.C

```
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MS Sans Serif;}{\f1\fswiss\fcharset0 Arial;}}
{*generator Msftedit 5.41.21.2500;}\viewkind4\uc1\pard\f0\fs20 Cheers,\par
\par
johnKn [MS-SDK]\par
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\par
\par
-Please do not send email directly to this alias. This alias is for \par
newsgroup purposes only\par
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rights.\par
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-To provide additional feedback about your community experience please send
\par
e-mail to: sdkcomm@xxxxxxxxxxxxxx\par
\fi\par
}
```