**HttpRequest Class**

Enables ASP.NET to read the HTTP values sent by a client during a Web request.

**Namespace:**  [System.Web](http://msdn.microsoft.com/en-us/library/system.web.aspx)  
**Assembly:**  System.Web (in System.Web.dll)

http://i.msdn.microsoft.com/Global/Images/clear.gif Syntax

Visual Basic (Declaration)

<AspNetHostingPermissionAttribute(SecurityAction.LinkDemand, Level := AspNetHostingPermissionLevel.Minimal)> \_

Public NotInheritable Class HttpRequest

Visual Basic (Usage)

Dim instance As HttpRequest

C#

[AspNetHostingPermissionAttribute(SecurityAction.LinkDemand, Level = AspNetHostingPermissionLevel.Minimal)]

public sealed class HttpRequest

Visual C++

[AspNetHostingPermissionAttribute(SecurityAction::LinkDemand, Level = AspNetHostingPermissionLevel::Minimal)]

public ref class HttpRequest sealed

JScript

public final class HttpRequest

http://i.msdn.microsoft.com/Global/Images/clear.gif Remarks

The methods and properties of the **HttpRequest** class are exposed through the **Request** properties of the [HttpApplication](http://msdn.microsoft.com/en-us/library/system.web.httpapplication.aspx), [HttpContext](http://msdn.microsoft.com/en-us/library/system.web.httpcontext.aspx), [Page](http://msdn.microsoft.com/en-us/library/system.web.ui.page.aspx), and [UserControl](http://msdn.microsoft.com/en-us/library/system.web.ui.usercontrol.aspx) classes.

|  |
| --- |
| **h55b6cak.alert_note(en-us,VS.90).gifNote:** |
| Unicode support for **HttpRequest** class members requires IIS version 6.0 or later. |

http://i.msdn.microsoft.com/Global/Images/clear.gif Examples

The following example uses the [StreamWriter](http://msdn.microsoft.com/en-us/library/system.io.streamwriter.aspx) class to write the values of several **HttpRequest** class properties values to a file. For properties that are of type string, the values are HTML encoded as they are written to the file. Properties that represent a collection are looped through, and each key/value pair that they contain is written to the file.

|  |
| --- |
| **h55b6cak.alert_security(en-us,VS.90).gifSecurity Note:** |
| This example has a text box that accepts user input, which is a potential security threat. By default, ASP.NET Web pages validate that user input does not include script or HTML elements. For more information, see [Script Exploits Overview](http://msdn.microsoft.com/en-us/library/w1sw53ds.aspx). |

Visual Basic

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl45VisualBasic');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl45VisualBasic');)

<%@ Page Language="VB" %>

<%@ import Namespace="System.Threading" %>

<%@ import Namespace="System.IO" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<script runat="server">

' NOTE: To use this sample, create a c:\temp\CS folder,

' add the ASP.NET account (in IIS 5.x <machinename>\ASPNET,

' in IIS 6.x NETWORK SERVICE), and give it write permissions

' to the folder.

Private Const INFO\_DIR As String = "c:\temp\VB\RequestDetails"

Public Shared requestCount As Integer

Private Sub Page\_Load(sender As Object, e As System.EventArgs)

' Create a variable to use when iterating

' through the UserLanguages property.

Dim langCount As Integer

' Create a counter to name the file.

Dim requestNumber As Integer = \_

Interlocked.Increment(requestCount)

' Create the file to contain information about the request.

Dim strFilePath As String = INFO\_DIR & requestNumber.ToString() & ".txt"

Dim sw As StreamWriter = File.CreateText(strFilePath)

Try

' Write request information to the file with HTML encoding.

sw.WriteLine(Server.HtmlEncode(DateTime.Now.ToString()))

sw.WriteLine(Server.HtmlEncode(Request.CurrentExecutionFilePath))

sw.WriteLine(Server.HtmlEncode(Request.ApplicationPath))

sw.WriteLine(Server.HtmlEncode(Request.FilePath))

sw.WriteLine(Server.HtmlEncode(Request.Path))

' Iterate through the Form collection and write

' the values to the file with HTML encoding.

For Each s As String In Request.Form

sw.WriteLine("Form: " & Server.HtmlEncode(s))

Next s

' Write the PathInfo property value

' or a string if it is empty.

If Request.PathInfo = String.Empty Then

sw.WriteLine("The PathInfo property contains no information.")

Else

sw.WriteLine(Server.HtmlEncode(Request.PathInfo))

End If

' Write request information to the file with HTML encoding.

sw.WriteLine(Server.HtmlEncode(Request.PhysicalApplicationPath))

sw.WriteLine(Server.HtmlEncode(Request.PhysicalPath))

sw.WriteLine(Server.HtmlEncode(Request.RawUrl))

' Write a message to the file dependent upon

' the value of the TotalBytes property.

If Request.TotalBytes > 1000 Then

sw.WriteLine("The request is 1KB or greater")

Else

sw.WriteLine("The request is less than 1KB")

End If

' Write request information to the file with HTML encoding.

sw.WriteLine(Server.HtmlEncode(Request.RequestType))

sw.WriteLine(Server.HtmlEncode(Request.UserHostAddress))

sw.WriteLine(Server.HtmlEncode(Request.UserHostName))

sw.WriteLine(Server.HtmlEncode(Request.HttpMethod))

' Iterate through the UserLanguages collection and

' write its HTML encoded values to the file.

For langCount = 0 To Request.UserLanguages.Length - 1

sw.WriteLine("User Language " & langCount.ToString() & \_

": " & Server.HtmlEncode( \_

Request.UserLanguages(langCount)))

Next

Finally

' Close the stream to the file.

sw.Close()

End Try

lblInfoSent.Text = \_

"Information about this request has been sent to a file."

End Sub 'Page\_Load

Private Sub btnSendInfo\_Click(sender As Object, e As System.EventArgs)

lblInfoSent.Text = \_

"Hello, " & Server.HtmlEncode(txtBoxName.Text) & \_

". You have created a new request info file."

End Sub 'btnSendInfo\_Click

</script>

<html >

<head>

<title>ASP.NET Example</title>

</head>

<body>

<form id="form1" runat="server">

<p>

</p>

<p>

Enter your hame here:

<asp:TextBox id="txtBoxName" runat="server"></asp:TextBox>

</p>

<p>

<asp:Button id="btnSendInfo" onclick="btnSendInfo\_Click" runat="server" Text="Click Here"></asp:Button>

</p>

<p>

<asp:Label id="lblInfoSent" runat="server"></asp:Label>

</p>

</form>

</body>

</html>

C#

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl46CSharp');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl46CSharp');)

<%@ Page Language="C#" %>

<%@ import Namespace="System.Threading" %>

<%@ import Namespace="System.IO" %>

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\* add the ASP.NET account (in IIS 5.x <machinename>\ASPNET,

\* in IIS 6.x NETWORK SERVICE), and give it write permissions

\* to the folder.\*/

private const string INFO\_DIR = @"c:\temp\CS\RequestDetails";

public static int requestCount;

private void Page\_Load(object sender, System.EventArgs e)

{

// Create a variable to use when iterating

// through the UserLanguages property.

int langCount;

int requestNumber = Interlocked.Increment(ref requestCount);

// Create the file to contain information about the request.

string strFilePath = INFO\_DIR + requestNumber.ToString() + @".txt";

StreamWriter sw = File.CreateText(strFilePath);

try

{

// Write request information to the file with HTML encoding.

sw.WriteLine(Server.HtmlEncode(DateTime.Now.ToString()));

sw.WriteLine(Server.HtmlEncode(Request.CurrentExecutionFilePath));

sw.WriteLine(Server.HtmlEncode(Request.ApplicationPath));

sw.WriteLine(Server.HtmlEncode(Request.FilePath));

sw.WriteLine(Server.HtmlEncode(Request.Path));

// Iterate through the Form collection and write

// the values to the file with HTML encoding.

// String[] formArray = Request.Form.AllKeys;

foreach (string s in Request.Form)

{

sw.WriteLine("Form: " + Server.HtmlEncode(s));

}

// Write the PathInfo property value

// or a string if it is empty.

if (Request.PathInfo == String.Empty)

{

sw.WriteLine("The PathInfo property contains no information.");

}

else

{

sw.WriteLine(Server.HtmlEncode(Request.PathInfo));

}

// Write request information to the file with HTML encoding.

sw.WriteLine(Server.HtmlEncode(Request.PhysicalApplicationPath));

sw.WriteLine(Server.HtmlEncode(Request.PhysicalPath));

sw.WriteLine(Server.HtmlEncode(Request.RawUrl));

// Write a message to the file dependent upon

// the value of the TotalBytes property.

if (Request.TotalBytes > 1000)

{

sw.WriteLine("The request is 1KB or greater");

}

else

{

sw.WriteLine("The request is less than 1KB");

}

// Write request information to the file with HTML encoding.

sw.WriteLine(Server.HtmlEncode(Request.RequestType));

sw.WriteLine(Server.HtmlEncode(Request.UserHostAddress));

sw.WriteLine(Server.HtmlEncode(Request.UserHostName));

sw.WriteLine(Server.HtmlEncode(Request.HttpMethod));

// Iterate through the UserLanguages collection and

// write its HTML encoded values to the file.

for (langCount=0; langCount < Request.UserLanguages.Length; langCount++)

{

sw.WriteLine(@"User Language " + langCount +": " + Server.HtmlEncode(Request.UserLanguages[langCount]));

}

}

finally

{

// Close the stream to the file.

sw.Close();

}

lblInfoSent.Text = "Information about this request has been sent to a file.";

}

private void btnSendInfo\_Click(object sender, System.EventArgs e)

{

lblInfoSent.Text = "Hello, " + Server.HtmlEncode(txtBoxName.Text) +

". You have created a new request info file.";

}

</script>

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<p>

</p>

<p>

Enter your hame here:

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</p>

<p>

<asp:Button id="btnSendInfo" onclick="btnSendInfo\_Click" runat="server" Text="Click Here"></asp:Button>

</p>

<p>

<asp:Label id="lblInfoSent" runat="server"></asp:Label>

</p>

</form>

</body>

</html>

http://i.msdn.microsoft.com/Global/Images/clear.gif Permissions

* [AspNetHostingPermission](http://msdn.microsoft.com/en-us/library/system.web.aspnethostingpermission.aspx)

for operating in a hosted environment. Demand value: [LinkDemand](http://msdn.microsoft.com/en-us/library/system.security.permissions.securityaction.linkdemand.aspx); Permission value: [Minimal](http://msdn.microsoft.com/en-us/library/system.web.aspnethostingpermissionlevel.minimal.aspx).

http://i.msdn.microsoft.com/Global/Images/clear.gif Inheritance Hierarchy

[System..::.Object](http://msdn.microsoft.com/en-us/library/system.object.aspx)  
  **System.Web..::.HttpRequest**

http://i.msdn.microsoft.com/Global/Images/clear.gif Thread Safety

Any public **static** (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.

http://i.msdn.microsoft.com/Global/Images/clear.gif Platforms

Windows Vista, Windows XP SP2, Windows XP Media Center Edition, Windows XP Professional x64 Edition, Windows XP Starter Edition, Windows Server 2003, Windows Server 2000 SP4, Windows Millennium Edition, Windows 98

The .NET Framework and .NET Compact Framework do not support all versions of every platform. For a list of the supported versions, see [.NET Framework System Requirements](http://msdn.microsoft.com/en-us/library/8z6watww.aspx).

http://i.msdn.microsoft.com/Global/Images/clear.gif Version Information

**.NET Framework**

Supported in: 3.5, 3.0, 2.0, 1.1, 1.0