System.Net.WebResponse Class

```
[ILASM]
.class public abstract serializable WebResponse extends
System.MarshalByRefObject implements System.IDisposable

[C#]
public abstract class WebResponse: MarshalByRefObject,
IDisposable
```

Assembly Info:

- *Name:* System
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
  - CLSCompliantAttribute(true)

Implements:

- **System.IDisposable**

Summary

Represents a response received from a Uniform Resource Identifier (URI).

Inherits From: System.MarshalByRefObject

Library: Networking

Thread Safety: All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

Description

System.Net.WebResponse is the base class from which protocol-specific response classes, such as **System.Net.HttpWebResponse**, are derived.

Classes that derive from **System.Net.WebResponse** are required to override the following members in the **System.Net.WebResponse** class:

- **System.Net.WebResponse.ContentLength**: Gets or sets the content length of the data being received.

- **System.Net.WebResponse.ContentType**: Gets or sets the media type of the data being received.

- **System.Net.WebResponse.GetResponseStream**: Returns a **System.IO.Stream** that contains data from the current host.

- **System.Net.WebResponse.ResponseUri**: Gets a **System.Uri** containing the URI of the resource associated with the current instance.

- **System.Net.WebResponse.Headers**: Gets or sets the collection of header name/value pairs associated with the current instance.

[*Note:* Applications can participate in request/response transactions in a protocol-agnostic manner using instances of the **System.Net.WebResponse** class while protocol-specific classes derived from **System.Net.WebResponse** carry out the details of the request.

Applications do not create **System.Net.WebResponse** objects directly; they are created by calling **System.Net.WebRequest.GetResponse**.]

Example

The following example creates a **System.Net.WebResponse** instance from a **System.Net.WebRequest**.

[C#]

```
using System;
using System.Net;

public class WebResponseExample {

  public static void Main() {

    // Initialize the WebRequest.
    WebRequest myRequest =
      WebRequest.Create("http://www.contoso.com");

    // Return the response.
    WebResponse myResponse = myRequest.GetResponse();

    // Code to use the WebResponse goes here.

    // Close the response to free resources.
    myResponse.Close();
  }
}
```

WebResponse() Constructor

```
[ILASM]
family rtspecialname specialname instance void .ctor()


[C#]
protected WebResponse()
```

Summary

Constructs a new instance of the **System.Net.WebResponse** class.

Description

This constructor is called only by classes that derive from
System.Net.WebResponse.

[*Note:* To obtain a **System.Net.WebResponse** instance, use the
System.Net.WebRequest.GetResponse method; do not use this
constructor.]

WebResponse.Close() Method

```
[ILASM]
.method public hidebysig virtual void Close()


[C#]
public virtual void Close()
```

Summary

Closes the response stream.

Behaviors

This method is required to free the connection used by the
System.IO.Stream returned by a call to
System.Net.WebResponse.GetResponseStream.

Default

The **System.Net.WebResponse** class is abstract and does not
provide an implementation for this method. This method throws
System.NotSupportedException.

How and When to Override

This method is required to be overridden in derived classes to close
the response stream and free resources allocated by the current
instance.

Usage

Use this method or **System.IO.Stream.Close** to clean up the
resources used by a **System.Net.WebResponse**.

Exceptions

Exception	Condition
System.NotSupportedException	This method is not implemented in the derived class.

WebResponse.GetResponseStream() Method

```
[ILASM]
.method public hidebysig virtual class System.IO.Stream
GetResponseStream()

[C#]
public virtual Stream GetResponseStream()
```

Summary

Returns a **System.IO.Stream** that contains data from the current host.

Return Value

A **System.IO.Stream** for reading data from the current host.

Behaviors

This method is required to return a **System.IO.Stream** from the host specified by the **System.Net.WebResponse.ResponseUri** property of the current instance.

Default

This method throws **System.NotSupportedException**.

How and When to Override

This method is required to be overridden by classes that inherit from **System.Net.WebResponse**.

Usage

Use this method to open a connection to the current host. To close the stream when it is no longer needed, in order to prevent the exhaustion of system resources, invoke either the **System.IO.Stream.Close** or **System.Net.WebResponse.Close** methods.

Exceptions

Exception	Condition
System.NotSupportedException	This method is not implemented in the derived

	class.

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WebResponse.System.IDisposable.Dispose() Method

```
[ILASM]
.method private final hidebysig virtual void
System.IDisposable.Dispose()


[C#]
void IDisposable.Dispose()
```

Summary

Implemented to support the **System.IDisposable** interface. [Note: For more information, see **System.IDisposable.Dispose**.]

WebResponse.ContentLength Property

```
[ILASM]
.property int64 ContentLength { public hidebysig virtual
specialname int64 get_ContentLength() public hidebysig
virtual specialname void set_ContentLength(int64 value) }

[C#]
public virtual long ContentLength { get; set; }
```

Summary

Gets or sets the content length of the data received from the server.

Property Value

A **System.Int64** containing the number of bytes returned from the
resource.

Behaviors

This property contains the number of bytes of data in the response to
the request associated with the current instance. For request methods
that contain header information, the
System.Net.WebResponse.ContentLength does not include the
length of the header information. The value of this property is set by
the Content-Length header received in the response.

Default

The **System.Net.WebResponse** class is abstract and does not
provide an implementation for this property. This property throws
System.NotSupportedException.

How and When to Override

This property is required to be overridden by classes that inherit from
System.Net.WebResponse to set the content length as appropriate
for the derived class.

Usage

Use this property to determine the number of bytes in the response.

Exceptions

Exception	Condition

System.NotSupportedException	This property is not implemented in the derived class.

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WebResponse.ContentType Property

```
[ILASM]
.property string ContentType { public hidebysig virtual
specialname string get_ContentType() public hidebysig
virtual specialname void set_ContentType(string value) }


[C#]
public virtual string ContentType { get; set; }
```

Summary

Gets or sets the media type of the data received.

Property Value

A **System.String** that contains the media type of the response data.

Description

[*Note:* The media type is typically the MIME encoding of the content.]

Behaviors

As described above.

Default

The **System.Net.WebResponse** class is abstract and does not
provide an implementation for this property. This property throws
System.NotSupportedException.

How and When to Override

This property is required to be overridden by classes that inherit from
System.Net.WebResponse.

Usage

Use this property to get the media type of the response.

Exceptions

Exception	Condition
System.NotSupportedException	This property is not implemented in the derived class.

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WebResponse.Headers Property

```
[ILASM]
.property class System.Net.WebHeaderCollection Headers {
public hidebysig virtual specialname class
System.Net.WebHeaderCollection get_Headers() }


[C#]
public virtual WebHeaderCollection Headers { get; }
```

Summary

Gets the collection of header name/value pairs associated with the current instance.

Property Value

A **System.Net.WebHeaderCollection** containing the header name/value pairs associated with the current instance.

Description

This property contains a **System.Net.WebHeaderCollection** instance containing the header information returned in the response from the resource.

Behaviors

This property is read-only.

Default

The **System.Net.WebResponse** class is abstract and does not provide an implementation for this property. This property throws **System.NotSupportedException**.

How and When to Override

This property is required to be overridden by classes that inherit from **System.Net.WebResponse**.

Usage

Use this property to retrieve the header information received with the response.

Exceptions

Exception	Condition
System.NotSupportedException	This property is not implemented in the derived class.

WebResponse.ResponseUri Property

```
[ILASM]
.property class System.Uri ResponseUri { public hidebysig
virtual specialname class System.Uri get_ResponseUri() }

[C#]
public virtual Uri ResponseUri { get; }
```

Summary

Gets the URI of the resource associated with the current instance.

Property Value

A **System.Uri** containing the URI of the resource associated with the current response.

Behaviors

This property is read-only.

This property returns the URI that provided the response information in the current instance. [*Note:* If the method protocol used in the associated **System.Net.WebRequest** permits redirection, the value of this property might differ from the **System.Net.WebRequest.RequestUri** property of the request.]

Default

The **System.Net.WebResponse** class is abstract and does not provide an implementation for this property. This property throws **System.NotSupportedException**.

How and When to Override

This property is required to be overridden by classes that inherit from **System.Net.WebResponse**.

Usage

Use this property to determine the URI that originated the response.

Exceptions

Exception	Condition

System.NotSupportedException	This property is not implemented in the derived class.

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