

SYSTEM.NET.HTTP LIBRARY REFERENCE

September 24, 2014

Contents

Description	iii
Copyrights	iv
Namespaces	v
1 Usage	1
1.0.1 Referencing the Http Library	1
2 System.Net.Http Namespace	2
2.1 Classes	3
2.1.1 HeaderLine Class	4
2.1.1.1 Member Functions	4
2.1.1.1.1 HeaderLine() Member Function	4
2.1.1.1.2 HeaderLine(const HeaderLine&) Member Function	4
2.1.1.1.3 HeaderLine(HeaderLine&&) Member Function	6
2.1.1.1.4 HeaderLine(const String&, const String&) Member Function	6
2.1.1.1.5 operator=(const HeaderLine&) Member Function	6
2.1.1.1.6 operator=(HeaderLine&&) Member Function	6
2.1.1.1.7 ~HeaderLine() Member Function	8
2.1.1.1.8 Name() const Member Function	8
2.1.1.1.9 Value() const Member Function	8
2.1.2 HttpResponseMessage Class	9
2.1.2.1 Member Functions	9
2.1.2.1.1 HttpResponseMessage() Member Function	9
2.1.2.1.2 HttpResponseMessage(const HttpResponseMessage&) Member Function	9
2.1.2.1.3 HttpResponseMessage(HttpResponse&&) Member Function	10
2.1.2.1.4 HttpResponseMessage(const HttpStatus&, const List<HeaderLine>&, const String&) Member Function	10
2.1.2.1.5 operator=(const HttpResponseMessage&) Member Function	10
2.1.2.1.6 operator=(HttpResponse&&) Member Function	12
2.1.2.1.7 ~HttpResponse() Member Function	12
2.1.2.1.8 Content() const Member Function	12
2.1.2.1.9 HeaderLines() const Member Function	12

	2.1.2.1.10	Status() const Member Function	13
2.1.3		HttpStatus Class	14
	2.1.3.1	Member Functions	14
		2.1.3.1.1 HttpStatus() Member Function	14
		2.1.3.1.2 HttpStatus(const HttpStatus&) Member Function	15
		2.1.3.1.3 HttpStatus(HttpStatus&&) Member Function	15
		2.1.3.1.4 HttpStatus(const String&, int, const String&) Mem- ber Function	15
		2.1.3.1.5 operator=(const HttpStatus&) Member Function	15
		2.1.3.1.6 operator=(HttpStatus&&) Member Function	17
		2.1.3.1.7 ~HttpStatus() Member Function	17
		2.1.3.1.8 HttpVersion() const Member Function	17
		2.1.3.1.9 StatusCode() const Member Function	17
		2.1.3.1.10 StatusText() const Member Function	18
2.2		Functions	19
	2.2.4	ParseHttpResponse(const String&) Function	20

Description

Provides basic support for parsing HTTP responses.

Copyrights

=====
Copyright (c) 2012-2014 Seppo Laakko
<http://sourceforge.net/projects/cmajor/>

Distributed under the GNU General Public License, version 3 (GPLv3).
(See accompanying LICENSE.txt or <http://www.gnu.org/licenses/gpl.html>)

=====

Namespaces

Namespace	Description
System.Net.Http	Contains classes for parsing HTTP responses.

1 Usage

1.0.1 Referencing the Http Library

Right-click a project node in IDE | Project References... | Add System Extension Library Reference... | enable *System.Net.Http* check box

or add following line to your project's .cmp file:

```
reference <ext/System.Net.Http/System.Net.Http.cml>;
```

2 System.Net.Http Namespace

Contains classes for parsing HTTP responses.

2.1 Classes

Class	Description
HeaderLine	Represents a HTTP response header line.
HttpResponse	Represents a HTTP response.
HttpStatus	Represents a HTTP status in a HTTP response.

2.1.1 HeaderLine Class

Represents a HTTP response header line.

Syntax

```
public class HeaderLine;
```

2.1.1.1 Member Functions

Member Function	Description
HeaderLine()	Default constructor. Initializes an empty header line.
HeaderLine(const HeaderLine&)	Copy constructor.
HeaderLine(HeaderLine&&)	Move constructor.
HeaderLine(const String&, const String&)	Constructor. Initializes a header line with the specified name and value.
operator=(const HeaderLine&)	Copy assignment.
operator=(HeaderLine&&)	Move assignment.
~HeaderLine()	Destructor.
Name() const	Returns the name part of the header line.
Value() const	Returns the value part of the header line.

2.1.1.1.1 HeaderLine() Member Function

Default constructor. Initializes an empty header line.

Syntax

```
public HeaderLine();
```

2.1.1.1.2 HeaderLine(const HeaderLine&) Member Function

Copy constructor.

Syntax

```
public nothrow HeaderLine(const HeaderLine& that);
```

Parameters

Name	Type	Description
that	const HeaderLine &	A header line to copy.

2.1.1.1.3 HeaderLine(HeaderLine&&) Member Function

Move constructor.

Syntax

```
public nothrow HeaderLine(HeaderLine&& that);
```

Parameters

Name	Type	Description
that	HeaderLine &&	A header line to move.

2.1.1.1.4 HeaderLine(const String&, const String&) Member Function

Constructor. Initializes a header line with the specified name and value.

Syntax

```
public HeaderLine(const String& name_, const String& value_);
```

Parameters

Name	Type	Description
name_	const String&	A name.
value_	const String&	A value.

2.1.1.1.5 operator=(const HeaderLine&) Member Function

Copy assignment.

Syntax

```
public nothrow void operator=(const HeaderLine& that);
```

Parameters

Name	Type	Description
that	const HeaderLine &	A header line to assign.

2.1.1.1.6 operator=(HeaderLine&&) Member Function

Move assignment.

Syntax

```
public nothrow void operator=(HeaderLine&& that);
```

Parameters

Name	Type	Description
that	HeaderLine &&	A header line to move.

2.1.1.1.7 ~HeaderLine() Member Function

Destructor.

Syntax

```
public nothrow ~HeaderLine();
```

2.1.1.1.8 Name() const Member Function

Returns the name part of the header line.

Syntax

```
public const String& Name() const;
```

Returns

```
const String&
```

Returns the name part of the header line.

2.1.1.1.9 Value() const Member Function

Returns the value part of the header line.

Syntax

```
public const String& Value() const;
```

Returns

```
const String&
```

Returns the value part of the header line.

2.1.2 `HttpResponse` Class

Represents a HTTP response.

Syntax

```
public class HttpResponse;
```

2.1.2.1 Member Functions

Member Function	Description
<code>HttpResponse()</code>	Default constructor. Initializes an empty HTTP response.
<code>HttpResponse(const HttpResponse&)</code>	Copy constructor.
<code>HttpResponse(HttpResponse&&)</code>	Move constructor.
<code>HttpResponse(const HttpStatusCode, const List<HeaderLine>&, const String&)</code>	Constructor. Initializes a HTTP response with the specified HTTP status, list of header lines and content.
<code>operator=(const HttpResponse&)</code>	Copy assignment.
<code>operator=(HttpResponse&&)</code>	Move assignment.
<code>~HttpResponse()</code>	Destructor.
<code>Content() const</code>	Returns the content string of the HTTP response.
<code>HeaderLines() const</code>	Returns a list of header lines.
<code>Status() const</code>	Returns the HTTP status of the HTTP response.

2.1.2.1.1 `HttpResponse()` Member Function

Default constructor. Initializes an empty HTTP response.

Syntax

```
public HttpResponse();
```

2.1.2.1.2 `HttpResponse(const HttpResponse&)` Member Function

Copy constructor.

Syntax

```
public HttpResponseMessage(const HttpResponseMessage& that);
```

Parameters

Name	Type	Description
that	const HttpResponse&	A HTTP response to copy.

2.1.2.1.3 HttpResponseMessage(HttpResponse&&) Member Function

Move constructor.

Syntax

```
public nothrow HttpResponseMessage(HttpResponse&& that);
```

Parameters

Name	Type	Description
that	HttpResponse&&	A HTTP response to move.

2.1.2.1.4 HttpResponseMessage(const HttpStatus&, const List<HeaderLine>&, const String&) Member Function

Constructor. Initializes a HTTP response with the specified HTTP status, list of header lines and content.

Syntax

```
public HttpResponseMessage(const HttpStatus& status_, const List<HeaderLine>& headerLines_, const String& content_);
```

Parameters

Name	Type	Description
status_	const HttpStatus&	A HTTP status.
headerLines_	const List<HeaderLine>&	A list of header lines.
content_	const String&	Content string.

2.1.2.1.5 operator=(const HttpResponseMessage&) Member Function

Copy assignment.

Syntax

```
public void operator=(const HttpResponseMessage& that);
```


Parameters

Name	Type	Description
that	const HttpResponse&	A HTTP response to assign.

2.1.2.1.6 operator=(HttpResponse&&) Member Function

Move assignment.

Syntax

```
public nothrow void operator=(HttpResponse&& that);
```

Parameters

Name	Type	Description
that	HttpResponse&&	A HTTP response to move.

2.1.2.1.7 ~HttpResponse() Member Function

Destructor.

Syntax

```
public nothrow ~HttpResponse();
```

2.1.2.1.8 Content() const Member Function

Returns the content string of the HTTP response.

Syntax

```
public nothrow const String& Content() const;
```

Returns

const String&

Returns the content string of the HTTP response.

2.1.2.1.9 HeaderLines() const Member Function

Returns a list of header lines.

Syntax

```
public nothrow const List<HeaderLine>& HeaderLines() const;
```

Returns

`const List<HeaderLine>&`

Returns a list of header lines.

2.1.2.1.10 Status() const Member Function

Returns the HTTP status of the HTTP response.

Syntax

```
public nothrow const HttpStatus& Status() const;
```

Returns

`const HttpStatus&`

Returns the HTTP status of the HTTP response.

2.1.3 HttpStatus Class

Represents a HTTP status in a HTTP response.

Syntax

```
public class HttpStatus;
```

2.1.3.1 Member Functions

Member Function	Description
HttpStatus()	Default constructor. Initializes an empty HTTP status.
HttpStatus(const HttpStatus&)	Copy constructor.
HttpStatus(HttpStatus&&)	Move constructor.
HttpStatus(const String&, int, const String&)	Constructor. Initializes a HTTP status with the specified HTTP version, status code and status text.
operator=(const HttpStatus&)	Copy assignment.
operator=(HttpStatus&&)	Move assignment.
~HttpStatus()	Destructor.
HttpVersion() const	Returns the HTTP version part of the HTTP status.
StatusCode() const	Returns the HTTP status code part of the HTTP status.
StatusText() const	Returns the HTTP status text part of the HTTP status.

2.1.3.1.1 HttpStatus() Member Function

Default constructor. Initializes an empty HTTP status.

Syntax

```
public HttpStatus();
```

2.1.3.1.2 `HttpStatus(const HttpStatus&)` Member Function

Copy constructor.

Syntax

```
public nothrow HttpStatus(const HttpStatus& that);
```

Parameters

Name	Type	Description
that	const HttpStatus&	A HTTP status to copy.

2.1.3.1.3 `HttpStatus(HttpStatus&&)` Member Function

Move constructor.

Syntax

```
public nothrow HttpStatus(HttpStatus&& that);
```

Parameters

Name	Type	Description
that	HttpStatus&&	A HTTP status to move.

2.1.3.1.4 `HttpStatus(const String&, int, const String&)` Member Function

Constructor. Initializes a HTTP status with the specified HTTP version, status code and status text.

Syntax

```
public HttpStatus(const String& httpVersion_, int statusCode_, const String& statusText_)
```

Parameters

Name	Type	Description
httpVersion_	const String&	A HTTP version string.
statusCode_	int	A HTTP status code.
statusText_	const String&	A HTTP status text.

2.1.3.1.5 `operator=(const HttpStatus&)` Member Function

Copy assignment.

Syntax

```
public nothrow void operator=(const HttpStatus& that);
```

Parameters

Name	Type	Description
that	const HttpStatus&	A HTTP status to copy.

2.1.3.1.6 operator=(HttpStatus&&) Member Function

Move assignment.

Syntax

```
public nothrow void operator=(HttpStatus&& that);
```

Parameters

Name	Type	Description
that	HttpStatus&&	A HTTP status to move.

2.1.3.1.7 ~HttpStatus() Member Function

Destructor.

Syntax

```
public nothrow ~HttpStatus();
```

2.1.3.1.8 HttpVersion() const Member Function

Returns the HTTP version part of the HTTP status.

Syntax

```
public nothrow const String& HttpVersion() const;
```

Returns

const String&

Returns the HTTP version part of the HTTP status.

2.1.3.1.9 StatusCode() const Member Function

Returns the HTTP status code part of the HTTP status.

Syntax

```
public nothrow int StatusCode() const;
```

Returns

int

Returns the HTTP status code part of the HTTP status.

2.1.3.1.10 StatusText() const Member Function

Returns the HTTP status text part of the HTTP status.

Syntax

```
public nothrow const String& StatusText() const;
```

Returns

const String&

Returns the HTTP status text part of the HTTP status.

2.2 Functions

Function	Description
<code>ParseHttpResponse(const String&)</code>	Parses a HTTP response from the HTTP response text and return it.

2.2.4 ParseHttpResponse(const String&) Function

Parses a HTTP response from the HTTP response text and return it.

Syntax

```
public HttpResponse ParseHttpResponse(const String& responseText);
```

Parameters

Name	Type	Description
responseText	const String&	A HTTP response text.

Returns

[HttpResponse](#)

Returns a HTTP response.