Subject: HttpRequest ignores server errors
Posted by Zbych on Wed, 06 Sep 2017 11:24:48 GMT
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Hi,

I made some simple test and it appears that HttpRequest likes to ignore error code returned by http server.
Simple example:

```
HttpRequest conn("http://google.com/nonexistingpage");
conn.Trace(true);
Value resp = conn.Execute();
RDUMP(conn.IsFailure());
RDUMP(conn.GetStatusCode());
RDUMP(conn.GetErrorDesc());
RDUMP(conn.IsError());
RDUMP(resp.IsError());
```

and trace:

```
06.09.2017 13:11:14 HTTP START
06.09.2017 13:11:14 Using google.com:80
06.09.2017 13:11:14 Starting status 2 'Resolving host name', url: google.com
06.09.2017 13:11:14 HTTP Execute: Resolving host name
06.09.2017 13:11:14 HTTP StartConnect
06.09.2017 13:11:14 HTTP AfterConnect
06.09.2017 13:11:14 Starting status 6 'Sending request', url: google.com
06.09.2017 13:11:14 HTTP REQUEST google.com:0
06.09.2017 13:11:14 HTTP request:
06.09.2017 13:11:14 GET /nonexistingpage HTTP/1.1
06.09.2017 13:11:14 URL: http://google.com/nonexistingpage
06.09.2017 13:11:14 Host: google.com
06.09.2017 13:11:14 Connection: close
06.09.2017 13:11:14 Accept: */*
06.09.2017 13:11:14 Accept-Encoding: gzip
06.09.2017 13:11:14 User-Agent: U++ HTTP request
06.09.2017 13:11:14
06.09.2017 13:11:14 HTTP request body:
06.09.2017 13:11:14
06.09.2017 13:11:14 HTTP Execute: Sending request
06.09.2017 13:11:14 Starting status 7 'Receiving header', url: google.com
06.09.2017 13:11:14 HTTP Execute: Receiving header
06.09.2017 13:11:14 HTTP Header received:
06.09.2017 13:11:14 HTTP/1.1 404 Not Found
06.09.2017 13:11:14 Content-Type: text/html; charset=UTF-8
06.09.2017 13:11:14 Referrer-Policy: no-referrer
```

06.09.2017 13:11:14 Content-Length: 1576
06.09.2017 13:11:14 Date: Wed, 06 Sep 2017 11:11:14 GMT
06.09.2017 13:11:14 Connection: close
06.09.2017 13:11:14
06.09.2017 13:11:14
06.09.2017 13:11:14 HTTP status code: 404
06.09.2017 13:11:14 Starting status 8 'Receiving content', url: google.com
06.09.2017 13:11:14 HTTP Execute: Receiving content
06.09.2017 13:11:14 HTTP reading body 1576
06.09.2017 13:11:14 HTTP Out 1576
06.09.2017 13:11:14 conn.IsFailure() = false
06.09.2017 13:11:14 conn.GetStatusCode() = 404
06.09.2017 13:11:14 conn.GetErrorDesc() =
06.09.2017 13:11:14 conn.IsError() = false
06.09.2017 13:11:14 resp.IsError() = false

As you can see server returned code 404, but IsFailure(), IsError(), GetErrorDesc() ignored it.
At least IsFailure() should return true if code is not 2xx, according to the docs.
How about IsHttpError, IsError, GetErrorDesc?

Subject: Re: HttpRequest ignores server errors
Posted by mirek on Fri, 08 Sep 2017 06:14:16 GMT
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Well, there are 3 levels that application can be interested in:

Socket error - IsSocketError
HTTP protocol error - IsFailure
Server returns 2xx response - IsSuccess

So what you are getting is inline with expectations.

Also note that Execute returns String (not Value, so IsError does not make sense), but if !IsSuccess(), returns String::Void().

Subject: Re: HttpRequest ignores server errors
Posted by Zbych on Fri, 08 Sep 2017 06:51:17 GMT
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According to the docs:

bool IsFailure() const
Request has failed (it can be either due to connection errors or because the request did not ended

with 2xx response code).

Return code was 404 and IsFailure() returned false, so at least in this case there is something wrong.

I've added IsSuccess() to the dump:

08.09.2017 06:49:08 HTTP status code: 404
08.09.2017 06:49:08 Starting status 8 'Receiving content', url: google.com
08.09.2017 06:49:08 HTTP Execute: Receiving content
08.09.2017 06:49:08 HTTP reading body 1576
08.09.2017 06:49:08 HTTP Out 1576
08.09.2017 06:49:08 conn.IsFailure() = false
08.09.2017 06:49:08 conn.IsSuccess() = false
08.09.2017 06:49:08 conn.GetStatusCode() = 404
08.09.2017 06:49:08 conn.GetErrorDesc() =
08.09.2017 06:49:08 conn.IsError() = false

Subject: Re: HttpRequest ignores server errors
Posted by mirek on Fri, 08 Sep 2017 07:45:01 GMT
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Sorry, that appears to be a documentation problem. Fixing.
