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java.net

Class HttpURLConnection

[java.lang.Object](#)
[java.net.URLConnection](#)
[java.net.HttpURLConnection](#)
Direct Known Subclasses:
[HttpsURLConnection](#)

```
public abstract class HttpURLConnection
extends URLConnection
```

A URLConnection with support for HTTP-specific features. See [the spec](#) for details.

Each HttpURLConnection instance is used to make a single request but the underlying network connection to the HTTP server may be transparently shared by other instances. Calling the close() methods on the InputStream or OutputStream of an HttpURLConnection after a request may free network resources associated with this instance but has no effect on any shared persistent connection. Calling the disconnect() method may close the underlying socket if a persistent connection is otherwise idle at that time.

The HTTP protocol handler has a few settings that can be accessed through System Properties. This covers [Proxy settings](#) as well as [various other settings](#).

Since:

JDK1.1

See Also:
[disconnect\(\)](#)

Field Summary

Modifier and Type	Field and Description
protected int	chunkLength The chunk-length when using chunked encoding streaming mode for output.
protected int	fixedContentLength The fixed content-length when using fixed-length streaming mode.
protected	fixedContentLengthLong

long	The fixed content-length when using fixed-length streaming mode.
static int	HTTP ACCEPTED HTTP Status-Code 202: Accepted.
static int	HTTP BAD GATEWAY HTTP Status-Code 502: Bad Gateway.
static int	HTTP BAD METHOD HTTP Status-Code 405: Method Not Allowed.
static int	HTTP BAD REQUEST HTTP Status-Code 400: Bad Request.
static int	HTTP CLIENT TIMEOUT HTTP Status-Code 408: Request Time-Out.
static int	HTTP CONFLICT HTTP Status-Code 409: Conflict.
static int	HTTP CREATED HTTP Status-Code 201: Created.
static int	HTTP ENTITY TOO LARGE HTTP Status-Code 413: Request Entity Too Large.
static int	HTTP FORBIDDEN HTTP Status-Code 403: Forbidden.
static int	HTTP GATEWAY TIMEOUT HTTP Status-Code 504: Gateway Timeout.
static int	HTTP GONE HTTP Status-Code 410: Gone.
static int	HTTP INTERNAL ERROR HTTP Status-Code 500: Internal Server Error.
static int	HTTP LENGTH REQUIRED HTTP Status-Code 411: Length Required.
static int	HTTP MOVED PERM HTTP Status-Code 301: Moved Permanently.
static int	HTTP MOVED TEMP HTTP Status-Code 302: Temporary Redirect.
static int	HTTP MULT CHOICE HTTP Status-Code 300: Multiple Choices.
static int	HTTP NO CONTENT HTTP Status-Code 204: No Content.
static int	HTTP NOT ACCEPTABLE HTTP Status-Code 406: Not Acceptable.
static int	HTTP NOT AUTHORITATIVE HTTP Status-Code 203: Non-Authoritative Information.
static int	HTTP NOT FOUND HTTP Status-Code 404: Not Found.
static int	HTTP NOT IMPLEMENTED HTTP Status-Code 501: Not Implemented.
static int	HTTP NOT MODIFIED HTTP Status-Code 304: Not Modified.
static int	HTTP OK HTTP Status-Code 200: OK.

static int	HTTP PARTIAL HTTP Status-Code 206: Partial Content.
static int	HTTP PAYMENT REQUIRED HTTP Status-Code 402: Payment Required.
static int	HTTP PRECON FAILED HTTP Status-Code 412: Precondition Failed.
static int	HTTP PROXY AUTH HTTP Status-Code 407: Proxy Authentication Required.
static int	HTTP REQ TOO LONG HTTP Status-Code 414: Request-URI Too Large.
static int	HTTP RESET HTTP Status-Code 205: Reset Content.
static int	HTTP SEE OTHER HTTP Status-Code 303: See Other.
static int	HTTP SERVER ERROR Deprecated. <i>it is misplaced and shouldn't have existed.</i>
static int	HTTP UNAUTHORIZED HTTP Status-Code 401: Unauthorized.
static int	HTTP UNAVAILABLE HTTP Status-Code 503: Service Unavailable.
static int	HTTP UNSUPPORTED TYPE HTTP Status-Code 415: Unsupported Media Type.
static int	HTTP USE PROXY HTTP Status-Code 305: Use Proxy.
static int	HTTP VERSION HTTP Status-Code 505: HTTP Version Not Supported.
protected boolean	instanceFollowRedirects If true, the protocol will automatically follow redirects.
protected String	method The HTTP method (GET,POST,PUT,etc.).
protected int	responseCode An int representing the three digit HTTP Status-Code.
protected String	responseMessage The HTTP response message.

Fields inherited from class java.net.URLConnection

[allowUserInteraction](#), [connected](#), [doInput](#), [doOutput](#), [ifModifiedSince](#), [url](#), [useCaches](#)

Constructor Summary

Modifier	Constructor and Description
protected	HttpURLConnection(URL u) Constructor for the HttpURLConnection.

Method Summary

Modifier	Method and Description
----------	------------------------

and Type

abstract void	disconnect() Indicates that other requests to the server are unlikely in the near future.
<u>InputStream</u>	getErrorStream() Returns the error stream if the connection failed but the server sent useful data nonetheless.
static boolean	getFollowRedirects() Returns a boolean indicating whether or not HTTP redirects (3xx) should be automatically followed.
<u>String</u>	.getHeaderField(int n) Returns the value for the n^{th} header field.
long	getHeaderFieldDate(String name, long Default) Returns the value of the named field parsed as date.
<u>String</u>	getHeaderFieldKey(int n) Returns the key for the n^{th} header field.
boolean	getInstanceFollowRedirects() Returns the value of this HttpURLConnection's instanceFollowRedirects field.
<u>Permission</u>	getPermission() Returns a <u>SocketPermission</u> object representing the permission necessary to connect to the destination host and port.
<u>String</u>	getRequestMethod() Get the request method.
int	getResponseCode() Gets the status code from an HTTP response message.
<u>String</u>	getResponseMessage() Gets the HTTP response message, if any, returned along with the response code from a server.
void	setChunkedStreamingMode(int chunklen) This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is not known in advance.
void	setFixedLengthStreamingMode(int contentLength) This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is known in advance.
void	setFixedLengthStreamingMode(long contentLength) This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is known in advance.
static void	setFollowRedirects(boolean set) Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this class.
void	setInstanceFollowRedirects(boolean followRedirects) Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this HttpURLConnection instance.
void	setRequestMethod(String method) Set the method for the URL request, one of: GET POST HEAD OPTIONS PUT DELETE TRACE are legal, subject to protocol restrictions.

abstract	usingProxy()
boolean	Indicates if the connection is going through a proxy.

Methods inherited from class java.net.URLConnection

[addRequestProperty](#), [connect](#), [getAllowUserInteraction](#), [getConnectTimeout](#), [getContent](#), [getContent](#), [getContentEncoding](#), [getContentLength](#), [getContentLengthLong](#), [getContentType](#), [getDate](#), [getDefaultAllowUserInteraction](#), [getDefaultRequestProperty](#), [getDefaultUseCaches](#), [getDoInput](#), [getDoOutput](#), [getExpiration](#), [getFileNameMap](#), [getHeaderField](#), [getHeaderFieldInt](#), [getHeaderFieldLong](#), [getHeaderFields](#), [getIfModifiedSince](#), [getInputStream](#), [getLastModified](#), [getOutputStream](#), [getReadTimeout](#), [getRequestProperties](#), [getRequestProperty](#), [getURL](#), [getUseCaches](#), [guessContentTypeFromName](#), [guessContentTypeFromStream](#), [setAllowUserInteraction](#), [setConnectTimeout](#), [setContentHandlerFactory](#), [setDefaultAllowUserInteraction](#), [setDefaultRequestProperty](#), [setDefaultUseCaches](#), [setDoInput](#), [setDoOutput](#), [setFileNameMap](#), [setIfModifiedSince](#), [setReadTimeout](#), [setRequestProperty](#), [setUseCaches](#), [toString](#)

Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

Field Detail

method

protected [String](#) method

The HTTP method (GET,POST,PUT,etc.).

chunkLength

protected int chunkLength

The chunk-length when using chunked encoding streaming mode for output. A value of -1 means chunked encoding is disabled for output.

Since:

1.5

fixedContentLength

protected int fixedContentLength

The fixed content-length when using fixed-length streaming mode. A value of -1 means fixed-length streaming mode is disabled for output.

NOTE: [fixedContentLengthLong](#) is recommended instead of this field, as it allows larger content lengths to be set.

Since:

fixedContentLengthLong

protected long fixedContentLengthLong

The fixed content-length when using fixed-length streaming mode. A value of -1 means fixed-length streaming mode is disabled for output.

Since:

1.7

responseCode

protected int responseCode

An int representing the three digit HTTP Status-Code.

- 1xx: Informational
 - 2xx: Success
 - 3xx: Redirection
 - 4xx: Client Error
 - 5xx: Server Error
-

responseMessage

protected [String](#) responseMessage

The HTTP response message.

instanceFollowRedirects

protected boolean instanceFollowRedirects

If true, the protocol will automatically follow redirects. If false, the protocol will not automatically follow redirects.

This field is set by the `setInstanceFollowRedirects` method. Its value is returned by the `getInstanceFollowRedirects` method.

Its default value is based on the value of the static `followRedirects` at `HttpURLConnection` construction time.

See Also:

[setInstanceFollowRedirects\(boolean\)](#), [getInstanceFollowRedirects\(\)](#),
[setFollowRedirects\(boolean\)](#)

HTTP_OK

```
public static final int HTTP_OK
```

HTTP Status-Code 200: OK.

See Also:

[Constant Field Values](#)

HTTP_CREATED

```
public static final int HTTP_CREATED
```

HTTP Status-Code 201: Created.

See Also:

[Constant Field Values](#)

HTTP_ACCEPTED

```
public static final int HTTP_ACCEPTED
```

HTTP Status-Code 202: Accepted.

See Also:

[Constant Field Values](#)

HTTP_NOT_AUTHORITATIVE

```
public static final int HTTP_NOT_AUTHORITATIVE
```

HTTP Status-Code 203: Non-Authoritative Information.

See Also:

[Constant Field Values](#)

HTTP_NO_CONTENT

```
public static final int HTTP_NO_CONTENT
```

HTTP Status-Code 204: No Content.

See Also:

[Constant Field Values](#)

HTTP_RESET

```
public static final int HTTP_RESET
```

HTTP Status-Code 205: Reset Content.

See Also:

[Constant Field Values](#)

HTTP_PARTIAL

```
public static final int HTTP_PARTIAL
```

HTTP Status-Code 206: Partial Content.

See Also:

[Constant Field Values](#)

HTTP_MULT_CHOICE

```
public static final int HTTP_MULT_CHOICE
```

HTTP Status-Code 300: Multiple Choices.

See Also:

[Constant Field Values](#)

HTTP_MOVED_PERM

```
public static final int HTTP_MOVED_PERM
```

HTTP Status-Code 301: Moved Permanently.

See Also:

[Constant Field Values](#)

HTTP_MOVED_TEMP

```
public static final int HTTP_MOVED_TEMP
```

HTTP Status-Code 302: Temporary Redirect.

See Also:

[Constant Field Values](#)

HTTP_SEE_OTHER

```
public static final int HTTP_SEE_OTHER
```

HTTP Status-Code 303: See Other.

See Also:

[Constant Field Values](#)

HTTP_NOT_MODIFIED

```
public static final int HTTP_NOT_MODIFIED
```

HTTP Status-Code 304: Not Modified.

See Also:

[Constant Field Values](#)

HTTP_USE_PROXY

```
public static final int HTTP_USE_PROXY
```

HTTP Status-Code 305: Use Proxy.

See Also:

[Constant Field Values](#)

HTTP_BAD_REQUEST

```
public static final int HTTP_BAD_REQUEST
```

HTTP Status-Code 400: Bad Request.

See Also:

[Constant Field Values](#)

HTTP_UNAUTHORIZED

```
public static final int HTTP_UNAUTHORIZED
```

HTTP Status-Code 401: Unauthorized.

See Also:

[Constant Field Values](#)

HTTP_PAYMENT_REQUIRED

```
public static final int HTTP_PAYMENT_REQUIRED
```

HTTP Status-Code 402: Payment Required.

See Also:

[Constant Field Values](#)

HTTP_FORBIDDEN

```
public static final int HTTP_FORBIDDEN
```

HTTP Status-Code 403: Forbidden.

See Also:

[Constant Field Values](#)

HTTP_NOT_FOUND

```
public static final int HTTP_NOT_FOUND
```

HTTP Status-Code 404: Not Found.

See Also:

[Constant Field Values](#)

HTTP_BAD_METHOD

```
public static final int HTTP_BAD_METHOD
```

HTTP Status-Code 405: Method Not Allowed.

See Also:

[Constant Field Values](#)

HTTP_NOT_ACCEPTABLE

```
public static final int HTTP_NOT_ACCEPTABLE
```

HTTP Status-Code 406: Not Acceptable.

See Also:

[Constant Field Values](#)

HTTP_PROXY_AUTH

```
public static final int HTTP_PROXY_AUTH
```

HTTP Status-Code 407: Proxy Authentication Required.

See Also:

[Constant Field Values](#)

HTTP_CLIENT_TIMEOUT

```
public static final int HTTP_CLIENT_TIMEOUT
```

HTTP Status-Code 408: Request Time-Out.

See Also:

[Constant Field Values](#)

HTTP_CONFLICT

```
public static final int HTTP_CONFLICT
```

HTTP Status-Code 409: Conflict.

See Also:

[Constant Field Values](#)

HTTP_GONE

```
public static final int HTTP_GONE
```

HTTP Status-Code 410: Gone.

See Also:
[Constant Field Values](#)

HTTP_LENGTH_REQUIRED

```
public static final int HTTP_LENGTH_REQUIRED
```

HTTP Status-Code 411: Length Required.

See Also:
[Constant Field Values](#)

HTTP_PRECON_FAILED

```
public static final int HTTP_PRECON_FAILED
```

HTTP Status-Code 412: Precondition Failed.

See Also:
[Constant Field Values](#)

HTTP_ENTITY_TOO_LARGE

```
public static final int HTTP_ENTITY_TOO_LARGE
```

HTTP Status-Code 413: Request Entity Too Large.

See Also:
[Constant Field Values](#)

HTTP_REQ_TOO_LONG

```
public static final int HTTP_REQ_TOO_LONG
```

HTTP Status-Code 414: Request-URI Too Large.

See Also:
[Constant Field Values](#)

HTTP_UNSUPPORTED_TYPE

```
public static final int HTTP_UNSUPPORTED_TYPE
```

HTTP Status-Code 415: Unsupported Media Type.

See Also:

[Constant Field Values](#)

HTTP_SERVER_ERROR

[@Deprecated](#)

```
public static final int HTTP_SERVER_ERROR
```

Deprecated. *it is misplaced and shouldn't have existed.*

HTTP Status-Code 500: Internal Server Error.

See Also:

[Constant Field Values](#)

HTTP_INTERNAL_ERROR

```
public static final int HTTP_INTERNAL_ERROR
```

HTTP Status-Code 500: Internal Server Error.

See Also:

[Constant Field Values](#)

HTTP_NOT_IMPLEMENTED

```
public static final int HTTP_NOT_IMPLEMENTED
```

HTTP Status-Code 501: Not Implemented.

See Also:

[Constant Field Values](#)

HTTP_BAD_GATEWAY

```
public static final int HTTP_BAD_GATEWAY
```

HTTP Status-Code 502: Bad Gateway.

See Also:

[Constant Field Values](#)

HTTP_UNAVAILABLE

```
public static final int HTTP_UNAVAILABLE
```

HTTP Status-Code 503: Service Unavailable.

See Also:

[Constant Field Values](#)

HTTP_GATEWAY_TIMEOUT

```
public static final int HTTP_GATEWAY_TIMEOUT
```

HTTP Status-Code 504: Gateway Timeout.

See Also:

[Constant Field Values](#)

HTTP_VERSION

```
public static final int HTTP_VERSION
```

HTTP Status-Code 505: HTTP Version Not Supported.

See Also:

[Constant Field Values](#)

Constructor Detail

HttpURLConnection

```
protected HttpURLConnection(URL u)
```

Constructor for the HttpURLConnection.

Parameters:

u - the URL

Method Detail

getHeaderFieldKey

```
public String getHeaderFieldKey(int n)
```

Returns the key for the n^{th} header field. Some implementations may treat the 0^{th} header field as special, i.e. as the status line returned by the HTTP server. In this case, [getHeaderField\(0\)](#) returns the status line, but [getHeaderFieldKey\(0\)](#) returns null.

Overrides:

[getHeaderFieldKey](#) in class [URLConnection](#)

Parameters:

n - an index, where $n \geq 0$.

Returns:

the key for the n^{th} header field, or `null` if the key does not exist.

setFixedLengthStreamingMode

```
public void setFixedLengthStreamingMode(int contentLength)
```

This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is known in advance.

An exception will be thrown if the application attempts to write more data than the indicated content-length, or if the application closes the OutputStream before writing the indicated amount.

When output streaming is enabled, authentication and redirection cannot be handled automatically. A [HttpRetryException](#) will be thrown when reading the response if authentication or redirection are required. This exception can be queried for the details of the error.

This method must be called before the URLConnection is connected.

NOTE: [setFixedLengthStreamingMode\(long\)](#) is recommended instead of this method as it allows larger content lengths to be set.

Parameters:

`contentLength` - The number of bytes which will be written to the OutputStream.

Throws:

[IllegalStateException](#) - if URLConnection is already connected or if a different streaming mode is already enabled.

[IllegalArgumentException](#) - if a content length less than zero is specified.

Since:

1.5

See Also:

[setChunkedStreamingMode\(int\)](#)

setFixedLengthStreamingMode

```
public void setFixedLengthStreamingMode(long contentLength)
```

This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is known in advance.

An exception will be thrown if the application attempts to write more data than the indicated content-length, or if the application closes the OutputStream before writing the indicated amount.

When output streaming is enabled, authentication and redirection cannot be handled automatically. A [HttpRetryException](#) will be thrown when reading the response if authentication or redirection are required. This exception can be queried for the details of the error.

This method must be called before the URLConnection is connected.

The content length set by invoking this method takes precedence over any value set by [setFixedLengthStreamingMode\(int\)](#).

Parameters:

contentLength - The number of bytes which will be written to the OutputStream.

Throws:

[IllegalStateException](#) - if URLConnection is already connected or if a different streaming mode is already enabled.

[IllegalArgumentException](#) - if a content length less than zero is specified.

Since:

1.7

setChunkedStreamingMode

```
public void setChunkedStreamingMode(int chunklen)
```

This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is **not** known in advance. In this mode, chunked transfer encoding is used to send the request body. Note, not all HTTP servers support this mode.

When output streaming is enabled, authentication and redirection cannot be handled automatically. A HttpRetryException will be thrown when reading the response if authentication or redirection are required. This exception can be queried for the details of the error.

This method must be called before the URLConnection is connected.

Parameters:

chunklen - The number of bytes to write in each chunk. If chunklen is less than or equal to zero, a default value will be used.

Throws:

[IllegalStateException](#) - if URLConnection is already connected or if a different streaming mode is already enabled.

Since:

1.5

See Also:

[setFixedLengthStreamingMode\(int\)](#)

getHeaderField

```
public String getHeaderField(int n)
```

Returns the value for the n^{th} header field. Some implementations may treat the 0^{th} header field as special, i.e. as the status line returned by the HTTP server.

This method can be used in conjunction with the [getHeaderFieldKey](#) method to iterate through all the headers in the message.

Overrides:

[getHeaderField](#) in class [URLConnection](#)

Parameters:

n - an index, where $n \geq 0$.

Returns:

the value of the n^{th} header field, or `null` if the value does not exist.

See Also:

[getHeaderFieldKey\(int\)](#)

setFollowRedirects

```
public static void setFollowRedirects(boolean set)
```

Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this class. True by default. Applets cannot change this variable.

If there is a security manager, this method first calls the security manager's `checkSetFactory` method to ensure the operation is allowed. This could result in a `SecurityException`.

Parameters:

set - a boolean indicating whether or not to follow HTTP redirects.

Throws:

[SecurityException](#) - if a security manager exists and its `checkSetFactory` method doesn't allow the operation.

See Also:

[SecurityManager.checkSetFactory\(\)](#), [getFollowRedirects\(\)](#)

getFollowRedirects

```
public static boolean getFollowRedirects()
```

Returns a boolean indicating whether or not HTTP redirects (3xx) should be automatically followed.

Returns:

`true` if HTTP redirects should be automatically followed, `false` if not.

See Also:

[setFollowRedirects\(boolean\)](#)

setInstanceFollowRedirects

```
public void setInstanceFollowRedirects(boolean followRedirects)
```

Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this `HttpURLConnection` instance.

The default value comes from `followRedirects`, which defaults to true.

Parameters:

`followRedirects` - a boolean indicating whether or not to follow HTTP redirects.

Since:

1.3

See Also:

[instanceFollowRedirects](#), [getInstanceFollowRedirects\(\)](#)

getInstanceFollowRedirects

```
public boolean getInstanceFollowRedirects()
```

Returns the value of this `HttpURLConnection`'s `instanceFollowRedirects` field.

Returns:

the value of this `HttpURLConnection`'s `instanceFollowRedirects` field.

Since:

1.3

See Also:

[instanceFollowRedirects](#), [setInstanceFollowRedirects\(boolean\)](#)

setRequestMethod

```
public void setRequestMethod(String method)
    throws ProtocolException
```

Set the method for the URL request, one of:

- GET
- POST
- HEAD
- OPTIONS
- PUT
- DELETE
- TRACE

are legal, subject to protocol restrictions. The default method is GET.

Parameters:

method - the HTTP method

Throws:

[ProtocolException](#) - if the method cannot be reset or if the requested method isn't valid for HTTP.

[SecurityException](#) - if a security manager is set and the "allowHttpTrace" NetPermission is not granted.

See Also:

[getRequestMethod\(\)](#)

getRequestMethod

```
public String getRequestMethod()
```

Get the request method.

Returns:

the HTTP request method

See Also:

[setRequestMethod\(java.lang.String\)](#)

getResponseCode

```
public int getResponseCode()
    throws IOException
```

Gets the status code from an HTTP response message. For example, in the case of the following status lines:

```
HTTP/1.0 200 OK
HTTP/1.0 401 Unauthorized
```

It will return 200 and 401 respectively. Returns -1 if no code can be discerned from the response (i.e., the response is not valid HTTP).

Returns:

the HTTP Status-Code, or -1

Throws:

[IOException](#) - if an error occurred connecting to the server.

getResponseBody

```
public String getResponseBody()
    throws IOException
```

Gets the HTTP response message, if any, returned along with the response code from a server. From responses like:

```
HTTP/1.0 200 OK
HTTP/1.0 404 Not Found
```

Extracts the Strings "OK" and "Not Found" respectively. Returns null if none could be discerned from the responses (the result was not valid HTTP).

Returns:

the HTTP response message, or null

Throws:

[IOException](#) - if an error occurred connecting to the server.

getHeaderFieldDate

```
public long getHeaderFieldDate(String name,
    long Default)
```

Description copied from class: [URLConnection](#)

Returns the value of the named field parsed as date. The result is the number of milliseconds since January 1, 1970 GMT represented by the named field.

This form of `getHeaderField` exists because some connection types (e.g., http-`ng`) have pre-parsed headers. Classes for that connection type can override this method and short-circuit the parsing.

Overrides:

[getHeaderFieldDate](#) in class [URLConnection](#)

Parameters:

name - the name of the header field.

Default - a default value.

Returns:

the value of the field, parsed as a date. The value of the Default argument is returned if the field is missing or malformed.

disconnect

```
public abstract void disconnect()
```

Indicates that other requests to the server are unlikely in the near future. Calling disconnect() should not imply that this HttpURLConnection instance can be reused for other requests.

usingProxy

```
public abstract boolean usingProxy()
```

Indicates if the connection is going through a proxy.

Returns:

a boolean indicating if the connection is using a proxy.

getPermission

```
public Permission getPermission()  
throws IOException
```

Returns a [SocketPermission](#) object representing the permission necessary to connect to the destination host and port.

Overrides:

[getPermission](#) in class [URLConnection](#)

Returns:

a SocketPermission object representing the permission necessary to connect to the destination host and port.

Throws:

[IOException](#) - if an error occurs while computing the permission.

getErrorStream

```
public InputStream getErrorStream()
```

Returns the error stream if the connection failed but the server sent useful data nonetheless. The typical example is when an HTTP server responds with a 404, which will cause a `FileNotFoundException` to be thrown in `connect`, but the server sent an HTML help page with suggestions as to what to do.

This method will not cause a connection to be initiated. If the connection was not connected, or if the server did not have an error while connecting or if the server had an error but no error data was sent, this method will return null. This is the default.

Returns:

an error stream if any, null if there have been no errors, the connection is not connected or the server sent no useful data.

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For further API reference and developer documentation, see [Java SE Documentation](#). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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