The set of common methods for HTTP/1.1 is defined below and this set can be expanded based on requirements. These method names are case sensitive and they must be used in uppercase.

S.N. Method and Description

GET

The GET method is used to retrieve information from the given server using a given URI. Requests using GET should only retrieve data and should have no other effect on the data.

HEAD

Same as GET, but transfers the status line and header section only. **POST** 3

A POST request is used to send data to the server, for example, customer information, file upload, etc. using HTML forms.

PUT

Replaces all current representations of the target resource with the uploaded content. **DELETE** 5

Removes all current representations of the target resource given by a URI. **CONNECT** Establishes a tunnel to the server identified by a given URI.

Describes the communication options for the target resource. TRACE 8 Performs a message loop-back test along the path to the target resource. **GET Method**

A GET request retrieves data from a web server by specifying parameters in the URL portion of the request. This is the main method used for document retrieval. The following example makes use of GET method to fetch hello.htm:

HTTP/1.1 200 OK

Accept-Ranges: bytes

HEAD Method

Date: Mon, 27 Jul 2009 12:28:53 GMT

to fetch header information about hello.htm:

HEAD /hello.htm HTTP/1.1

Host: www.tutorialspoint.com

Vary: Authorization, Accept

POST /cgi-bin/process.cgi HTTP/1.1

Last-Modified: Wed, 22 Jul 2009 19:15:56 GMT

<h1>Request Processed Successfully</h1>

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

ETag: "34aa387-d-1568eb00"

Vary: Authorization, Accept

Connection: Closed

<html>

<body>

</body>

</html>

<html>

<html>

<body>

Accept-Ranges: bytes

Content-Type: text/html

Content-Length: 88

Connection: Closed

POST Method

Last-Modified: Wed, 22 Jul 2009 19:15:56 GMT

Server: Apache/2.2.14 (Win32)

OPTIONS

GET /hello.htm HTTP/1.1

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT) Host: www.tutorialspoint.com Accept-Language: en-us Accept-Encoding: gzip, deflate Connection: Keep-Alive The server response against the above HEAD request will be as follows:

ETag: "34aa387-d-1568eb00" Vary: Authorization, Accept

Content-Length: 88 Content-Type: text/html Connection: Closed <html> <body> <h1>Hello, World!</h1> </body> </html>

Accept-Encoding: gzip, deflate Connection: Keep-Alive

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

Accept-Language: en-us

The HEAD method is functionally similar to GET, except that the server replies with a response line and headers, but no entity-body. The following example makes use of HEAD method

The server response against the above HEAD request will be as follows: HTTP/1.1 200 OK Date: Mon, 27 Jul 2009 12:28:53 GMT Server: Apache/2.2.14 (Win32) Last-Modified: Wed, 22 Jul 2009 19:15:56 GMT ETag: "34aa387-d-1568eb00"

The POST method is used when you want to send some data to the server, for example, file update, form data, etc. The following example makes use of POST method to send a form data to the server, which will be processed by a process.cgi and finally a response will be returned:

You can notice that here server the does not send any data after header.

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

Content-Length: 88

Host: www.tutorialspoint.com Content-Type: text/xml; charset=utf-8

Accept-Language: en-us Accept-Encoding: gzip, deflate Connection: Keep-Alive <?xml version="1.0" encoding="utf-8"?> <string xmlns="http://clearforest.com/">string</string> The server side script process.cgi processes the passed data and sends the following response: HTTP/1.1 200 OK Date: Mon, 27 Jul 2009 12:28:53 GMT Server: Apache/2.2.14 (Win32)

Accept-Ranges: bytes Content-Length: 88 Content-Type: text/html

entity-body in **hello.htm** at the root of the server: PUT /hello.htm HTTP/1.1

Host: www.tutorialspoint.com

PUT Method

Accept-Language: en-us Connection: Keep-Alive Content-type: text/html Content-Length: 182

The PUT method is used to request the server to store the included entity-body at a location specified by the given URL. The following example requests the server to save the given

<body> <h1>Hello, World!</h1> </body> </html> The server will store the given entity-body in **hello.htm** file and will send the following response back to the client: HTTP/1.1 201 Created Date: Mon, 27 Jul 2009 12:28:53 GMT Server: Apache/2.2.14 (Win32) Content-type: text/html

<h1>The file was created.</h1> </body> </html>

Connection: Keep-Alive The server will delete the mentioned file **hello.htm** and will send the following response back to the client:

Content-length: 30

host tutorialspoint.com:

CONNECT www.tutorialspoint.com HTTP/1.1

HTTP/1.1 200 Connection established

Date: Mon, 27 Jul 2009 12:28:53 GMT

Content-Type: httpd/unix-directory

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

HTTP/1.1 200 OK

Accept-Language: en-us

Content-length: 30

Connection: Closed

DELETE Method

the root of the server:

DELETE /hello.htm HTTP/1.1

Host: www.tutorialspoint.com

Date: Mon, 27 Jul 2009 12:28:53 GMT Server: Apache/2.2.14 (Win32) Content-type: text/html

The DELETE method is used to request the server to delete a file at a location specified by the given URL. The following example requests the server to delete the given file hello.htm at

Connection: Closed <html> <body> <h1>URL deleted.</h1> </body> </html> **CONNECT Method** The CONNECT method is used by the client to establish a network connection to a web server over HTTP. The following example requests a connection with a web server running on the

Server: Apache/2.2.14 (Win32) **OPTIONS Method**

OPTIONS * HTTP/1.1

HTTP/1.1 200 OK

TRACE Method

TRACE / HTTP/1.1

Connection: close

Content-Length: 39

Host: www.tutorialspoint.com

Server: Apache/2.2.14 (Win32)

Content-Type: message/http

Date: Mon, 27 Jul 2009 12:28:53 GMT

The OPTIONS method is used by the client to find out the HTTP methods and other options supported by a web server. The client can specify a URL for the OPTIONS method, or an asterisk (*) to refer to the entire server. The following example requests a list of methods supported by a web server running on tutorialspoint.com:

Date: Mon, 27 Jul 2009 12:28:53 GMT Server: Apache/2.2.14 (Win32) Allow: GET, HEAD, POST, OPTIONS, TRACE

The server will send an information based on the current configuration of the server, for example:

The connection is established with the server and the following response is sent back to the client:

The TRACE method is used to echo the contents of an HTTP Request back to the requester which can be used for debugging purpose at the time of development. The following example shows the usage of TRACE method:

The server will send the following message in response to the above request: HTTP/1.1 200 OK

TRACE / HTTP/1.1 Host: www.tutorialspoint.com User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)