

SERVLETS AND JSP COURSE

REQUEST HEADERS



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Hello, Ubaldo Acosta greets you. Welcome or welcome again. I hope you're ready to start with this lesson.

We are going to study the topic of petition headers.

Are you ready? OK let's go!

REQUEST HEADERS

The Request Headers allow you to obtain metadata from the HTTP request. I.e.

- The HTTP Method used in the request (GET, POST, etc.)
- The IP of the team that made the request (192.168.1.1)
- The domain of the machine that made the request (www.mydomain.com)
- The requested resource (http://mydomain.com/recurso)
- The browser that was used in the request (Mozilla, MSIE, etc.)
- Among several more headboards ...

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We will now review the subject of headers in an HTTP request.

The headers allow us to obtain metadata from an HTTP request. This type of metadata can be for example: the method that was ordered to execute (GET method or the POST method), we can also obtain information from the team that made the request, I.e. the IP or the name of the machine that made the request, we can also get the name of the domain that made the request and we can find information of the browser that was used to make the request, for example a browser of type Mozilla or Internet Explorer type , among many more data of the HTTP request.

There are several more headings that we will detail below, however the idea of this practice is that we can understand how to process the headers and apply this code from our Servlets.

METHODS TO PROCESS HTTP REQUESTS

Class methods the `HttpServletRequest` class:

- `getHeader ()`
- `getHeaders ()`
- `getHeaderNames ()`

And some more specialized methods:

- `getCookies ()`
- `getAuthType ()` and `getRemoteUser ()`
- `getContentLength ()`
- `getContentType ()`
- `getDateHeader ()`
- `getIntHeader ()`

Methods with context related information:

- `getMethod ()`
- `getRequestURI ()`
- `getQueryString ()`
- `getProtocol ()`

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The following methods allow us to process the headers and these methods are defined within the Servlets API in the `HttpServletRequest` class. As we have seen previously, the `doGet` method or the `doPost` method, for example, receives the `HttpServletRequest` object and the `HttpServletResponse` object.

The `HttpServletRequest` object has as methods: the `getHeader ()`, `getHeaders ()` and `getHeaderName ()` method.

The `getHeader ()` method allows us to process only one header at a time, while `getHeaders ()` returns all the names in a Java enumeration that correspond to the HTTP request headers. The `getHeaders` method allows us to recover all headers in an HTTP request. The `getHeaderNames ()` method allows us to retrieve all the names related to the headers in the HTTP request.

Some more specialized methods can be the `getCookies ()` method to obtain all the cookies that are stored or processed in an HTTP request. A Cookie is a file that the Web browser uses to save certain user preferences at the time when the user uses a Web site.

The methods `getAuthType ()` and `getRemoteUser ()` will serve us to process the security in the API of Servlets and JSPs. Other methods allow us to obtain the length of our request `getContentLength ()`, the type of our request `getContentType ()` and in some cases also some more specific methods that have to do with dates or that have to do with integer types are the methods `getDateHeader ()` and `getIntHeader ()`. All these methods are within the `HttpServletRequest` object of the Servlets API.

Finally, we can obtain information related to the context of our HTTP request, such as the `getMethod ()` methods, which in this case returns information regarding the type of method that was executed, such as `get`, `post` or any of the methods related to the HTTP protocol. The `getRequestURI ()` method allows us to have the URI with which the resource was requested. The `getQueryString ()` method allows us to obtain the parameters that come after the question mark in a get request and also in the case of the `getProtocol ()` method, which tells us if an HTTP method, FTP etc. was executed.

This broadly covers the most important methods in header processing in an HTTP request, then we will see some examples to implement this concept.

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