**javax.servlet.http   
Class HttpServlet**

**Theory** :- Provides an abstract class to be subclassed to create an HTTP servlet suitable for a Web site. A subclass of HttpServlet must override at least one method, usually one of these:

* doGet, if the servlet supports HTTP GET requests
* doPost, for HTTP POST requests
* doPut, for HTTP PUT requests
* doDelete, for HTTP DELETE requests
* init and destroy, to manage resources that are held for the life of the servlet
* getServletInfo, which the servlet uses to provide information about itself
* doHead
* doOption
* doTrace

There's almost no reason to override the service method. service handles standard HTTP requests by dispatching them to the handler methods for each HTTP request type (the do*XXX* methods listed above).

Likewise, there's almost no reason to override the doOptions and doTrace methods.

**Method Summary**

|  |  |
| --- | --- |
| protected  void | [**service**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServlet.html#service(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse))([HttpServletRequest](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpServletRequest.html" \o "interface in javax.servlet.http) req, [HttpServletResponse](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpServletResponse.html" \o "interface in javax.servlet.http) resp)            Receives standard HTTP requests from the public service method and dispatches them to the do*XXX* methods defined in this class. |
| void | [**service**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServlet.html#service(javax.servlet.ServletRequest, javax.servlet.ServletResponse))([ServletRequest](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\ServletRequest.html" \o "interface in javax.servlet) req, [ServletResponse](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\ServletResponse.html" \o "interface in javax.servlet) res)            Dispatches client requests to the protected service method. |
| protected  void | [**doGet**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServlet.html#doGet(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse))**([HttpServletRequest](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpServletRequest.html" \o "interface in javax.servlet.http) req, [HttpServletResponse](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpServletResponse.html" \o "interface in javax.servlet.http) resp)            Called by the server (via the service method) to allow a servlet to handle a GET request.** |
| protected  void | [**doPost**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServlet.html#doPost(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse))**([HttpServletRequest](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpServletRequest.html" \o "interface in javax.servlet.http) req, [HttpServletResponse](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpServletResponse.html" \o "interface in javax.servlet.http) resp)            Called by the server (via the service method) to allow a servlet to handle a POST request.** |

## javax.servlet.http  Class Cookie

**Theory** :- Creates a cookie, a small amount of information sent by a servlet to a Web browser, saved by the browser, and later sent back to the server. A cookie's value can uniquely identify a client, so cookies are commonly used for session management.

A cookie has a name, a single value, and optional attributes such as a comment, path and domain qualifiers, a maximum age, and a version number. Some Web browsers have bugs in how they handle the optional attributes, so use them sparingly to improve the interoperability of your servlets.

|  |  |
| --- | --- |
| **Constructor Summary** | |
| [**Cookie**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#Cookie(java.lang.String, java.lang.String))(java.lang.String name, java.lang.String value)            Constructs a cookie with a specified name and value. |  |

**Method Summary**

|  |  |
| --- | --- |
| int | [**getMaxAge**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#getMaxAge())()            Returns the maximum age of the cookie, specified in seconds, By default, -1 indicating the cookie will persist until browser shutdown. |
| java.lang.String | [**getName**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#getName())()            Returns the name of the cookie. |
| java.lang.String | [**getPath**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#getPath())()            Returns the path on the server to which the browser returns this cookie. |
| java.lang.String | [**getValue**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#getValue())**()            Returns the value of the cookie.** |
| void | [**setMaxAge**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#setMaxAge(int))**(int expiry)            Sets the maximum age of the cookie in seconds.** |
| void | [**setPath**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#setPath(java.lang.String))**(java.lang.String uri)            Specifies a path for the cookie to which the client should return the cookie.** |
| void | [**setValue**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html#setValue(java.lang.String))**(java.lang.String newValue)            Assigns a new value to a cookie after the cookie is created.** |

## javax.servlet.http  Interface HttpServletRequest

**Theory** :- Extends the [ServletRequest](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\ServletRequest.html" \o "interface in javax.servlet) interface to provide request information for HTTP servlets.

The servlet container creates an HttpServletRequest object and passes it as an argument to the servlet's service methods (doGet, doPost, etc).

**Method Summary**

|  |  |
| --- | --- |
| [Cookie](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html)[] | [**getCookies**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletRequest.html#getCookies())()            Returns an array containing all of the Cookie objects the client sent with this request. |
| [HttpSession](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpSession.html" \o "interface in javax.servlet.http) | [**getSession**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletRequest.html#getSession())**()            Returns the current session associated with this request, or if the request does not have a session, creates one.** |
| [HttpSession](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\http\\HttpSession.html" \o "interface in javax.servlet.http) | [**getSession**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletRequest.html#getSession(boolean))**(boolean create)            Returns the current HttpSession associated with this request or, if there is no current session and create is true, returns a new session.** |
| Void | [**login**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletRequest.html#login(java.lang.String, java.lang.String))**(java.lang.String username, java.lang.String password)** |
| Void | [**logout**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletRequest.html#logout())**()** |

## javax.servlet.http  Interface HttpServletResponse

**Theory** :- Extends the [ServletResponse](file:///E:\\Rohit\\Java%20classes\\Servlet\\tomcat\\tomcat-7.0-doc\\servletapi\\javax\\servlet\\ServletResponse.html" \o "interface in javax.servlet) interface to provide HTTP-specific functionality in sending a response. For example, it has methods to access HTTP headers and cookies.

The servlet container creates an HttpServletResponse object and passes it as an argument to the servlet's service methods (doGet, doPost, etc).

**Method Summary**

|  |  |
| --- | --- |
| void | [**addCookie**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletResponse.html#addCookie(javax.servlet.http.Cookie))([Cookie](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\Cookie.html) cookie)            Adds the specified cookie to the response. |
| java.lang.String | [**encodeRedirectURL**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletResponse.html#encodeRedirectURL(java.lang.String))**(java.lang.String url)            Encodes the specified URL for use in the sendRedirect method or, if encoding is not needed, returns the URL unchanged.** |
|  |  |
| java.lang.String | [**encodeURL**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletResponse.html#encodeURL(java.lang.String))**(java.lang.String url)            Encodes the specified URL by including the session ID in it, or, if encoding is not needed, returns the URL unchanged.** |
| void | [**sendRedirect**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpServletResponse.html#sendRedirect(java.lang.String))**(java.lang.String location)            Sends a temporary redirect response to the client using the specified redirect location URL.** |

## javax.servlet.http  Interface HttpSession

**Theory** :- Provides a way to identify a user across more than one page request or visit to a Web site and to store information about that user.

The servlet container uses this interface to create a session between an HTTP client and an HTTP server. The session persists for a specified time period, across more than one connection or page request from the user. A session usually corresponds to one user, who may visit a site many times. The server can maintain a session in many ways such as using cookies or rewriting URLs.

|  |  |
| --- | --- |
| **Method Summary** | |
| java.lang.Object | [**getAttribute**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#getAttribute(java.lang.String))(java.lang.String name)            Returns the object bound with the specified name in this session, or null if no object is bound under the name. |
|  |  |
| long | [**getCreationTime**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#getCreationTime())()            Returns the time when this session was created, measured in milliseconds since midnight January 1, 1970 GMT. |
| java.lang.String | [**getId**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#getId())()            Returns a string containing the unique identifier assigned to this session. |
| long | [**getLastAccessedTime**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#getLastAccessedTime())()            Returns the last time the client sent a request associated with this session, as the number of milliseconds since midnight January 1, 1970 GMT, and marked by the time the container received the request. |
| int | [**getMaxInactiveInterval**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#getMaxInactiveInterval())()            Returns the maximum time interval, in seconds, that the servlet container will keep this session open between client accesses. |
| void | [**invalidate**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#invalidate())**()            Invalidates this session then unbinds any objects bound to it.** |
| boolean | [**isNew**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#isNew())**()            Returns true if the client does not yet know about the session or if the client chooses not to join the session.** |
| void | [**setAttribute**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#setAttribute(java.lang.String, java.lang.Object))**(java.lang.String name, java.lang.Object value)            Binds an object to this session, using the name specified.** |
| void | [**setMaxInactiveInterval**](file:///E:\Rohit\Java%20classes\Servlet\tomcat\tomcat-7.0-doc\servletapi\javax\servlet\http\HttpSession.html#setMaxInactiveInterval(int))**(int interval)            Specifies the time, in seconds, between client requests before the servlet container will invalidate this session.** |