JEE Course Servlets – Cookies

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Content

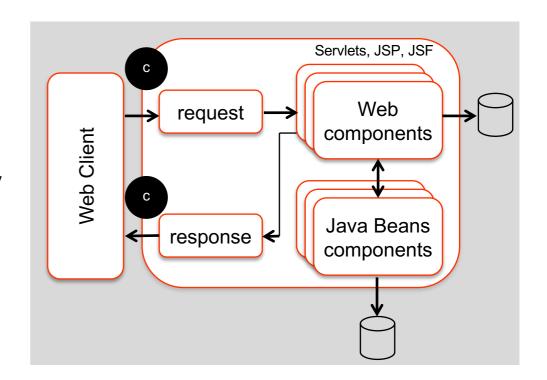


- Cookie definition and usages
- How to create Cookies?
- ▶ How to retrieve Cookies?

Cookie definition



- Cookies are small sequences of bytes stored on the client side.
- They have first proposed by Netscape to store persistent data
- There are some restrictions on their usage:
 - A Cookie can only be accessed by the domain that has created it
 - In general, browsers allow disabling Cookies (privacy)
- Cookies are sent back (as headers) each time she returns to the server who recorded them.



Cookie usages



- The most common uses of cookies are:
 - Storing useful data to reduce the amount of work to fulfill forms
 - Site personalization
 - Session tracking
- Cookies do not represent a safety issue to the user.
 They main concerning is related to privacy.

Creating Cookies (1 of 2)



- ▶ To create a cookie you must:
 - Create a Cookie object informing the key and value as Strings
 - ▶ Set the cookie expiration time (in seconds) using the setMaxAge method. If no time is specified, the cookie is valid until the browser is closed
 - Send the cookie to the client using the HttpServletResponse.addCookie method

Creating Cookies (2 of 2)



Some rules:

- The cookie name can not contain special characters:
 [] () = "/? @:;
- The cookie content can not contain semicolons
- You can also create cookies by entering the appropriate headers in the response object.

Retrieving Cookies



- Browsers always send all cookies that belong to the domain during the request
- Cookies are embedded in the request message as headers
- You can retrieve them using getCookies
- To retrieve a specific cookie, you should iterate over the returning array, comparing the name using the cookie.getName method (brute force!)

Some Cookie methods



set/getName Ex.: setName("prefFolder")

set/getValue Ex.: setValue("/usr/files")

set/getMaxAge
Ex.: setMaxAge(60 * 60)

set/getSecure Ex.: setSecure(true)

set/getDomain Ex: setDomain("fun.acme.com")

set/getPath
Ex: setPath("/")

Further reading



HttpServletResponse interface

http://tomcat.apache.org/tomcat-8.0-doc/servletapi/javax/servlet/http/Cookie.html