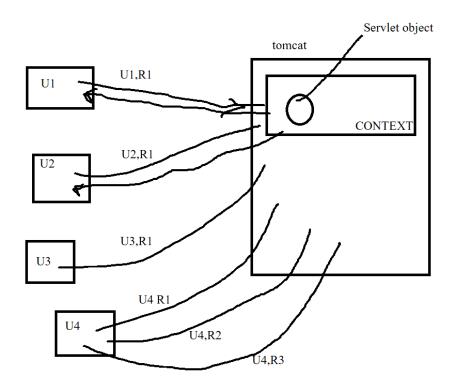
Session Management -----

Http is a stateless protocol !!!

It does not remember the state(values) of previous request !! It only knows about current request response

Session Management ---- The Http Server by default does not remember the data of PREVIOUS REQUESTS -----FROM A USER

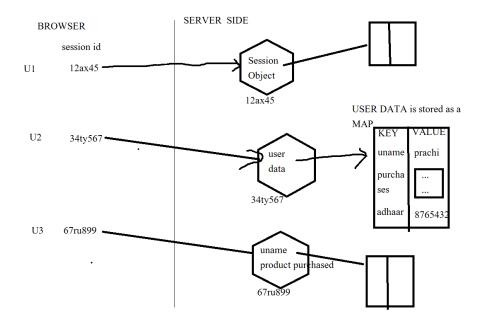


How to Identify a User?

Browser wise --- by default each browser is treated as a User !!!

Internally the Http Container assigns a UNIQUE ID to each user This ID is called as Session ID

Http Container maintains a Session object for storing data of that USER for each Session ID!!!



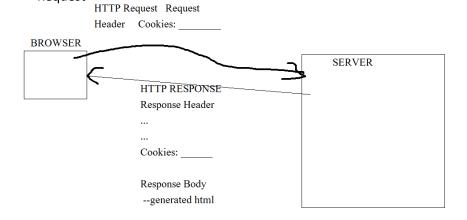
WHO creates the Session Id ? Web CONTEXT in tomcat server How is the session ID sent to the browser from server ? How is the session ID sent from browser to Server ?

This TOKEN EXCHANGE are done using

- a. Cookies
- b. URL Rewriting

Cookie = it is a small file = 1kb that holds a key=value sessionId=76ru899

This cookie is appended to HTTP Response by the SERVER - sent to the client When browser makes the next request to the server ---- cookie goes as a part of Http Request



URL Rewriting

SERVER ----->CLIENT
Http response
Response header

Response body

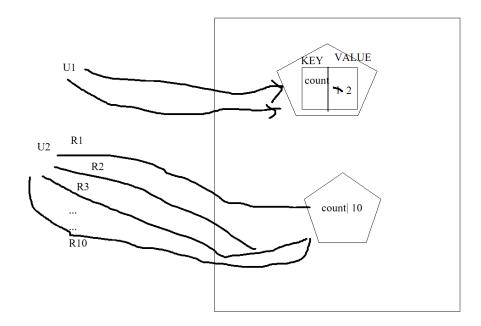
<form action ="/login?sessionid=76ru899" method=post>

.... </form>

Client ----->Server

Client clicks on the submit button --- the url is sent to server url: http://localhost:8080/APPNAME/login?sessionid=76ru899

EXAMPLE -----



Javax.servlet.http.HttpSession interface !!! The implementation is done by tomcat container !!!

HttpSession session = request.getSession();

getSession API ----- returns the Session object

If the request is coming with a session id then it will return the EXISTING session object

IF the request is NOT coming a session id then it will return a NEW Session object

HW	
Write the HitServlet that shows user wise hit count and global hit count . Add Logout functionality Run it on different browsers!!	

Servlet - 1. dynamic html generation , 2. data processing DB access , 3. Session Management

Servlet had some drawbacks -----

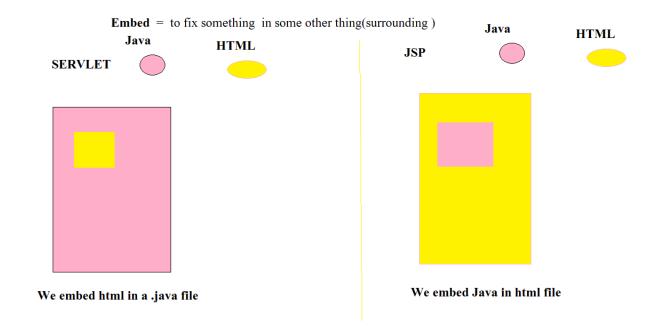
- 1. It is very complicated to write COMPLEX html with CSS and java script inside the servlet In other words --- it is COMPLEX to EMBED html in Java class!!!
- 2. Generating VIEW intense applications through servlet is not good idea.

VIEW = HTML
VIEW intense = LOT of html , css and javascript !!!

TO overcome this drawback ---- JSP was introduced !!!

JSP --- we embed Java in HTML !!!

JSP ---helps in dynamic html generation just like servlet ----but it is easier to write VIEW intensive programs



JSP

JSP is translated to a SERVLET \}}} Final product on SERVER SIDE is the SERVLET !!!

Ultimately html is generated by the SERVLET !!!!

Only we don't write the servlet !!!

We write JSP !!

JSP is translated to SERVLET by a JSP compiler inside tomcat !!!

JSP compiler is called as CATALINA in tomcat = JSP ENGINE

JSP ----->JSP ENGINE ---->SERVLET

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Design ----- One application may have both We write JSP ---for VIEW We write Servlet --- for DB access/data processing SERVER SIDE **CLient Side JSPs** HTML CSS Servlets javascript JSP and Servlets = SERVER SIDE WEB Components !!!! They never go to client side ONLY the htmls ,CSS , javascript generated by these web components go to client side !!! Servlet http://localhost:8080/JSPExamples/first } /first is the URL pattern JSP http://localhost:8080/JSPExamples/first.jsp } /first.jsp is the JSP name Ex1 ----- Show hello 100 times !!! SERVLET CODE THAT WE WROTE ----pw.append("<html><body>"); for(int i=0;i<num;i++) {</pre> pw.append(""+i+" Hello"); pw.append("</body></html>"); JSP CODE <html> <body> <scriplet = Java code that is embedded in html >

<output expression to show SINGLE value of a variable > Hello

<scriplet>

</body>

<html> <body> </body></html>

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