LoginServlet---- shows the login page VerifyServlet ---- verify the login HomeServlet ----shows the home page

1st run ---in all the 3 servlets use the doGet method 2nd run----replace doGet with service method

Session Management in web application---

From login up to logout, we want the server to remember the data!!! By default any web server does not remember the data after request response cycle. WHY? Http is a STATELESS protocol.

Through session management we will make the server remember the data And also keep track of which data comes from which browser(USER)!! i.e. USERWISE data tracking/maintenance

Cookies are used for User preference !!! Is a way to attract the USER to your site !!!

To maintain session we use an inbuilt API javax.servlet.http.HttpSession This internally uses cookies.

Lets say I have 3 USERS --- denoted by 3 browsers

Each user will access a URL and refresh it !!!

Server should remember how many times the particular user accessed that URL ----maintain a USERWISE counter

HttpSession session = request.getSession();

getSession API --- checks the request whether already a session ID is coming in the cookies Then it knows that this is **EXISTING** session It will retrieve sessionID from the cookie and access the shelf of that sessionID and return the EXISTING session object

> If the requst does not have session ID Then it knows that the **NEW** session has to be created It will create a new session ID and return a NEW session object

The WEB SERVER maintains one HttpSession object per Session ID.

login uname password

home //should be shown only when logged in Welcome User Enter your school name :

Go to another page -----> on another page show User name at the top

Show a button ----yet another page

Show user on the

top

Your school

name is:

For every user we will save the username and the schoolname!!!

On each page we add a logout link/button

After logout the username and schoolname are discarded

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session.getSession()	creates a session always if no session exists
session.getSession(false)	It returns null if no session exists

Rd . Forward	forward the <b>current request to</b> another servlet and then send the output of another servlet to the browser
Response. sendRedirect	a <b>new request</b> is sent to another servlet and the output is sent to browser

for logout	session.invalidate	+ we removed all the session attributes	

Servlet ----- We embed HTML inside a JAVA class

Writing complicated and big HTMLs inside a JAVA class is very difficult

To be able to write **htmls easily** + and still get the advantage of **dynamic** html + **session** management + **DB** connectivity + Java **Logic** Power JSP was introduced !!!

JSP = Java Server Pages

JSP = We embed Java code inside HTML

JSP is at server side Just like servlet

JSP is translated to a Servlet by Tomcat JSP Engine ( JASPER )

All in all the concepts of Servlets are used to generate dynamic html , session , DB , Logic

Print Hello 100 times with serial number using JSP !!!

We use a JSP SCRIPLET to include JAVA logic

This code is added in the \_jspservice method by Jasper !!!

Output Expresssion <%= %>

We can write a variable name or a method call inside output expression!!! The value is printed in the output html !!

