Friday, December 24, 2021

10:37 AM

https://stackoverflow.com/questions/33576979/why-have-a-shutdown-port-in-tomcat

Revise -

- 1. Web server --- Http Server
- 2. Non JEE compliant and JEE Compliant

Example --- non jee apache web server ,IIS, wamp

Jee - tomcat, weblogic, websphere, jboss, wildfly, glassfish

- 3. for writing servlet we need JEE compliant web server
- 4. static html = pre-created html

Dynamic html = this is created at request time (on the fly)

5. Servlet = server side web component

Why it is used ? 1. dynamic html , 2. data processing , 3. session managemnt

6. **Readymade** component --- Tomcat (servlet web container)

We are writing --- servlet component

Final WEB APPLICATION = Servlet Web Container + Servlet Component !!!

Integration is possible because = both are JEE compliant !!!

Ex1 ----

Use the Servlet to generate an html that shows Hello 100 times!!!!

- 1. we are writing the HundredHelloServlet
- 2. we are overriding the doGet method

We are not calling the doGet method !!!

Tomcat servlet web container will CALL doGet method!!

How many times does it call the doGet method ??? Once for each GET request

When will it call the doGet method ?? When the request arrives at server

- 3. The parameters passed to doGet method are
 - HttpServletRequest request

This is like IN parameter

This object is filled with HTTP request data and passed to this doGet

2. HttpServletResponse response

This is like OUT parameter

This object is empty and passed to doGet

It is our responsibility to fill the response object !!!

Single Request Response Cycle

Browser --I WROTE THIS in URL window -----http://localhost:8080/SWP/hello100 Browser reads http ----> browser understands request must be written in HTTP format |Send the Http Request to localhost:8080

browser

//localhost:8080/SWP/hello100

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Tomcat Server on Localhost:8080
SWP/hello100
|war1, war2, war3.....
                                tocat
Select SWP.war application
|/hello100 ( URL pattern is used to map the url name to the servlet )
|servlet1, servlet2, servlet3
                                  tomcat
Select HelloHundredServlet
     Call doGet of this servlet
Generate HttpServletResponse Java object servlet
Transformed to Http Response by Tomcat
                       tomcat
Sent to the browser
Read the http response body browser
Parse html , create dom , Render
                                  browser
Ex2
Implement the following flow using servlet and static html!!
Input.html
Static html ----- Enter how many times you want to print hello: textfield
                 OK -- submit button
When the OK button is clicked = fire action to HundredHelloServlet url pattern , type of Http
method = GET
Modify the HelloHundredServlet such that it picks the number from http request and prints only
those many hello.
Ex3
Modify the above example such that POST method is used to send the request when submit is
clicked!!!
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0. in input.html make the method=POST

- 1. If we do not give doPost in HundredHelloServlet -----??? Http Response Error 405 method not allowed
- 2. WE add the doPost overriding in the Servlet --- but it will have same code as doGet in our case So we internally call doGet

HW 1 -----Do the Ex1, Ex2, Ex3 as discussed in class (don't copy code, type it and use my code for reference) HW 2 ----- Write a static html that accepts username and password from the user and clicks login submit button Login.html Write a LoginServlet -----doPost method only Get the request parameter uname password and check If uname is "cdac" and password is "bingo123" then show the user Welcome Username Otherwise show the message - You are not allowed!! HW 3 ----- Write a static html that Num 1: tf Num2:tf Dropdown: Add, Subtract, Multiply, Divide Do-submit = POST request ----- CalculatorServlet CalculatorServlet will calculate as per selection ---- show result as follows Output html Result 10 + 20 = 30 //if num1 is 10 and num2 is 20 and dropdown selection is Add HW 4 ----- Write a static html that has Name: tf Radio select Nationality: Indian rb, Canadian rb, australian rb OK button ---submit -----> NationalityServlet Pick the nationality and print output as follows Shubham is having Australian nationality // name=Shubham and rb Australian selected HW 5 -----write a static html that has Name: tf Entertainment that you prefer: give check box for each one -----Movie Trek Classical Music Rock Party Trip OK ---submit button -----EntertainmentServlet It should show output html as Prachi likes Trek and Classical Music and Trip //assuming name = prachi and checkboxes selected are Trek, Classical Music and Trip

3. Sysout written in doGet /doPost is seen in Server Command Window !!!!

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| WPT Page 5 |
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