Java Servlet Rules on Humboldt's OAS for Spring 2013

(OAS - Oracle Application Server)

last modified: 3-25-13

1. This semester, we are sharing the same servlet directory on nrs-projects. And, servlets in this directory must be world-readable and world-writable, which will affect how we proceed with course servlets.

2. You are expected (class style standard!) to name your servlet classes so that they BEGIN with your campus username, to avoid inadvertent name collisions. (you may choose to write your campus username in all-uppercase or just starting-with-uppercase, your choice)

   ...for example, then, I'll start all my servlet classes with `st10` or `ST10`

3. You should create and compile your servlet in your "own" directory on nrs-projects; EITHER add this to your `.bashrc` file in your home directory on nrs-labs:

   `export CLASSPATH=$CLASSPATH:/opt/oracle/product/10.1/oc4j/j2ee/home/lib/servlet.jar:.`

   (don't forget the . at the end!) ...remembering to then either run the command `source .bashrc` or to log out and log into nrs-projects again, so that you can use `javac XxxnYrSrv.java` as usual to compile servlets,

   OR use the following `javac` command to do so, to have access to the servlet classes:

   `javac -classpath /opt/oracle/product/10.1/oc4j/j2ee/home/lib/servlet.jar:. XxxnYrSrv.java`

   – (If you want to use the `Html318Helpers` class methods in your servlet, COPY this class to the directory where your servlet is BEFORE compiling the servlet (don't forget that period at the end!!):

     `cp ~st10/public_html/318lab09/Html318Helpers.class .`

     If you would also like its source code, then do the above command replacing `.class` with `.java`)

4. Once you have successfully compiled your servlet, put ONlsLY your `.class` file in the following directory, where OAS expects to find servlets:

   `cp XxxnYrSrv.class /opt/oracle/product/10.1/oc4j/j2ee/home/default-web-app/WEB-INF/classes`

   ...and make it world-readable and world-writable with the following command:

   `chmod 777 /opt/oracle/product/10.1/oc4j/j2ee/home/default-web-app/WEB-INF/classes/XxxnYrSrv.class`

   OR copy the shell script `cpservlet` to your bin directory on nrs-labs and use that:

   IF you do not yet have a bin directory, FIRST do: `mkdir ~/bin` ...to make this directory. THEN you can do:

   `cp ~st10/bin/cpservlet ~/bin`

   `chmod 700 ~/bin/cpservlet`

   Now: `cpservlet XxxnYrSrv`

   ...will copy the `.class` file and give it permission 777 in the directory
   `/opt/oracle/product/10.1/oc4j/j2ee/home/default-web-app/WEB-INF/classes/`

5. NOW: you should be able to RUN your servlet using the URL:

   `http://nrs-projects.humboldt.edu:8888/servlet/XxxnYrSrv`

   ...but use this as the value for an `action` attribute for a form if it expects to grab form information! (And if any of that information is sensitive -- e.g., a password! -- implement the `doPost` method in your servlet and use `method="post"` in your form!)

6. Peter Johnson included the comment "(you have to reload twice after making a change)" -- so keep this in mind. I'm still trying to determine if this simply means to try the servlet twice after making a change.