Advanced Internet Technologies

Lab Sessions

- Tomcat
 - Get the Tomcat bundle according to your operating system
 - Decompress it / install it in a convenient location
 - Read/Write Permissions!
 - Deploy your application server
 - ./startup.sh or startup.bat
 - Show the Initial screen

Tomcat

- Access the console to see which webapps are installed
 - If does not work, hack the configuration file (\$CATALINA_HOME/conf/tomcat-users.xml) to grant yourself permissions
- Stop Tomcat
 - ./shutdown.sh
- Write your experience report (Exercise 3), discussing the steps you took, problems you faced and how you solved them

- Servlets (1)
 - Create an Exercise4 servlet that prints "Hello World" and the current time using the structure explained in lessons
 - Tomcat/webapps/Exercise4
 - Note that Exercise4 must have a WEB-INF folder
 - The WEB-INF folder must contain:
 - classes
 - web.xml
 - Configure the <servlet> and <servlet-mapping> tags

- Servlets (1)
 - Compile the servlet class, using the J2EE servlet
 API
 - javac -cp \$TOMCAT/lib/servlet-api.jar Exercise4.java
 - Call the server according to the URL mapping you specified in web.xml
 - Write your experience report (Exercise 4),
 discussing the steps you took, problems you faced
 and how you solved them

- Servlets (2)
 - Now, we will make a servlet that is able to receive parameters from a URL request, and print them
 - Make a verbatim copy of the servlet Exercise4 in a new servlet called Exercise5
 - At parent level, create a simple html form that sends 3 parameters at your choice.
 - The target of the form should be the servlet Exercise5
 - The parameters should be sent using the GET http verb

- Servlets (2)
 - Modify the hello world servlet to receive the parameters sent in the GET string
 - Hint:
 - import java.util.Enumeration;
 - Enumeration<String> params= request.getParameterNames();
 - The enum will hold all the names of the parameters sent by GET

- Servlets (2)
 - -Still, you need to extract the values!
 - -Hint:
 - String parameterName = params.nextElement();
 - String parameterValue = request.getParameter(parameterName);
 - Write your experience report (Exercise 5), discussing the steps you took, problems you faced and how you solved them

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- Install the Eclipse Webtools Platform
- Create a new Dynamic Web Project
- Repeat the Exercise 5 using the structure created by Eclipse
- Export the project in a WAR file
- Load the WAR file from the administration console of Tomcat
- Write your experience report (Exercise 6), discussing the steps you took, problems you faced and how you solved them