Assignment 1 – Servlets

In this assignment, you are asked to create a simple Java EE web application which allows the user to maintain a list of tasks (ToDo objects). Please see the flowchart on the following page also to see the program flow.

- 1. To store task details, create a simple Java bean class (e.g. *ToDo.java* put this in a separate package) which just contains a task's subject and details, as well as appropriate getter & setter methods and constructor.
- 2. On the *index.html* page implement a simple login form, which takes as inputs the username and password.
- 3. The login form is submitted to a servlet (e.g. *LoginServlet*) which performs a hard-code username and password check, e.g. *if* (*username.contentEquals("owen"*) && *pwd.contentEquals("1234")*). If the username / password combination are correct the servlet adds the username to the session as an attribute, and forwards control to another servlet (e.g. *GetTodoList*) to retrieve the list of tasks from the session. If the username / password combination is incorrect, the login servlet redirects back to the *index.html* page.
- 4. The second (*GetTodoList*) servlet will retrieve the list of tasks from the HttpSession object. If there are no tasks created already, the page returned by this servlet will just contain a link to bring the user to the *addTodo.html* page. If there are tasks in the list retrieved from the session, it will also output these as a HTML table, as well as the link to the AddTodo form page.
- 5. The *AddTodo.html* page simple contains a form for inputting a new tasks, and is submitted to a third servlet, called for example *AddTodo*
- 6. The *AddTodo*servlet creates a new Todo object using the form input parameters, and adds it to the list on the session object before redirecting back to the *GetTodoList*servlet. As described above, this will output the list of tasks stored on the session.
- 7. So, every time you add a *valid* task, it is added to the list, which is displayed, and you are given the option to add another one.

To submit your assignment:

- Perform a 'Clean' on the project (right click on Project and choose option Clean)
- Zip the project folder (download 7Zip if you don't have a suitable compression tool already https://www.7-zip.org/)
- Submit the Zip file on Canvas for the assignment

