

**COMP4711 Lab 2 (Fall 2008)**  
**Dates: Sept 16-18, 2008**

## **JSPs**

### **Background**

Last week, you were exposed to the NetBeans approach to webapp development. This week, I will walk you through building a simple webapp to handle an order form, using all the different aspects of JSPs.

This is an individual lab.

We are going to build a simple cookie ordering system, for your favorite kind of cookies (chocolate chip, beer, peanut butter, etc).

I suggest trying to run your webapp after each “step” below.

This is a work in progress – we will flesh it out in lab :))

### **Lab Tasks**

1. Create a new NetBeans project, called something suitable (eg. JimsSnacks). You will notice that it starts out with index.jsp, which contains some JSP directives. This is where we will put our order form.
2. In your configuration, modify web.xml, adding a context parameter “title”, with the title of your snack bar.
3. Use a JSP expression to supply the proper title for your order form (the title element of the head, and the h1 element of the body). You will need to reference a method of an implicit variable.
4. Add an HTML form to the body. Its name can be “ordering” or something similar, and the action should be “order.jsp”.
5. Put a two-column table inside the form, to hold labels and form fields.
6. You might start with one empty row, and clone it – we will need six altogether.
7. Add some labels in the left column: Order #, Customer name, Cookie, Size, Options, and Proceed.
8. Make a new JSP, “order”. We want it to display all of the parameters it receives, and it should have a link or button going back to index.jsp.
9. Add a textbox, “name”, to the index.jsp table, beside the customer name.
10. Create a new Java class, model.Model. It should have an array of cookie names and an int order #, as well as methods getCookies() and getOrderNumber() to return these. This class should be a singleton. Each time the order # is requested, it should be incremented.
11. Use a JSP declaration in index.jsp to get access to your model.

12. Use a JSP expression to get the current order # and put it in the right-side of the table, in the first row.
13. Use a JSP scriptlet to get the cookie names and generate a select component (combobox) for the snack selection.
14. Use radio buttons to provide small, medium & large size selections.
15. Come up with a couple of cookie options (sprinkles? Napkin?) and stick them in the form table too.
16. Add an "ok" or "submit" button to complete the form table.
17. In order.jsp, capture the parameters and print a receipt instead of just dumping them.

### **Marking Guideline**

This lab will be marked out of 10 (no specific breakdown).

### **Submission**

- Your zipped netbeans project to share-in, using a suitable name, like ParryJimComp4711Lab2.zip (note: surname followed by first name).
- Due by the end of the weekend (sunday 11:59pm)