

INFS3202/7202 Practical 3 – Further File I/O and JSP

(9 marks)

Overview and objectives

The goal of this practical is two-fold. You will further explore file input/output as you move more data server side. You will also explore JSP (Java Server Pages) through a number of tasks. You should be working on this Prac in Weeks 6-7. You must present the results to your Lab tutor during your scheduled Lab session in Week 8, beginning the 28/4/2014. The Prac could be done either in the Lab or at home. You must also upload your code that you have shown to the tutor to Blackboard by 5pm on the day of your Prac session.

This practical exercise is divided into four tasks:

- Reading metadata from a file (2 marks);
- An Admin Page (2 marks);
- Editing functionality (3 marks).
- An Admin Log-in page (2 marks).

Preparation

Before attempting this practical you should have a good working knowledge of HTML, PHP and JSP. Please ensure you that you have covered the material in Lectures 1-4.

As a reminder you should place any JSP tasks files in the dedicated directory of your personal web server (zone): [/var/www/htdocs/](#).

We have prepared a simple jsp test file that contains only one function to test whether your zone setup is functioning. The test file is available on blackboard named jsptest.jsp. You will need to upload the test file to [/var/www/htdocs](#) in order to test your zone.

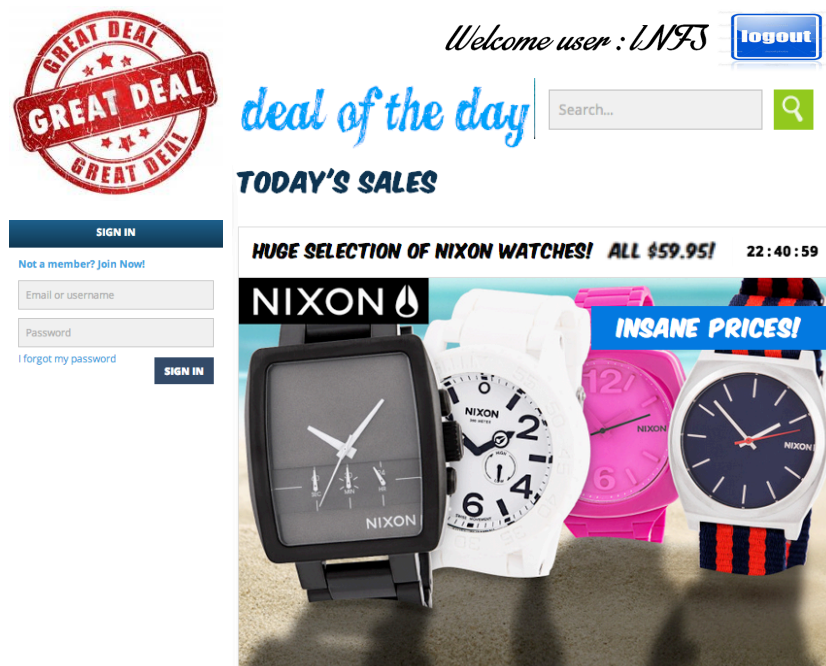
Once you uploaded the test file, you can test you zone by using the following link:
<http://infs3202-xxx.uqcloud.net/jsptest.jsp>

Task 1 (2 marks): Reading the metadata from a file

Currently each of your 'Deal' images on the main index page and gallery pages have static/hard coded metadata associated with them. Your task is to create separate files for each image (at least two), which contain the metadata for that deal. The files should list line by line the metadata, i.e. 'name' on line 1, 'price line 2, 'due time' line 3, 'location of the deal' line 4, 'image path' line5, and 'description' etc. You should then display this information on your webpage by reading it from the files.

As a challenge a more detailed description for each deal should be provided and all those information should also read from the file. For example, if a user click on a deal on the main page, the user will be direct onto a new page and the page contains **the location** of the deal and **a detail description** of the item.

An example has provided for you as below.



Location: 123 Dean Street, Toowong

Description

Nixon The Dial Watch - Shocking Pink

- » Japanese movement | Polycarbonate case!
- » Understated design with a rubberised band!
- » Square dial with raised, oversized numbers!

Truly stylish and classic timepieces like these are hard to come by. Nixon watches are created using only the highest quality craftsmanship and finest materials available. With precise Japanese movement and effortlessly chic designs, these watches are an investment in fashion and functionality.

Features:

- Nixon watch
- For men or women
- Style: The Dial
- Colour: Shocking Pink
- Japanese movement
- Analogue display with raised pink numbers
- Shocking pink dial
- Scratch resistant mineral crystal
- Polycarbonate case
- Rubberised band
- Buckle fastening
- Water resistant to 50m (5ATM)
- **2 Year Manufacturer Warranty** - refer to 'Warranty' tab for details.
- Please read our general [Terms & Conditions](#).

Task 2 (2 marks): The Admin Page

Using JSP you should create an Admin page for your “Deal of the day” site. The admin page should primarily consist of a table listing your places, transaction like (see example below) with columns for the Deal name, Price detail, phone number and any other information contained in your metadata files from task 1.

You should read the information for your table from the files. The last column of the table should read ‘Edit’, see Task 3.

Watches	Edit
Sun glasses	Edit

Task 3 (3 marks): Edit Functionality

When a user clicks the “Edit” link for a place on the Admin page a form should ‘pop up’ (see example) which allows the admin to modify the metadata of that place. On submit the new data should be written to the appropriate file and the table on the Admin page should be updated appropriately.

Name:	<input type="text"/>
Price:	<input type="text"/>
Due time:	<input type="text"/>
Location:	<input type="text"/>
Photo url:	<input type="text"/>
Description:	<input type="text"/>


Edit

1 bonus mark: As an added challenges you could (not required) prepopulate the pop up form with the current metadata. Also adding validation to the form, i.e. name must exist or must at least be 4 letters long.

Task 4 (2 marks): The Admin log-in page

Using JSP you should create a login page that has any appearance you like (example below). The login algorithm must be implemented server side with JSP sessions or Cookies. The login form need only accept one set of credentials ('admin', 'password'). On a correct login the user should be redirected to the Admin page. If incorrect credentials are entered a warning "Incorrect username or password" should be displayed on the login page and they may try again.

As with the client log-in if a user tries to navigate directly to the Admin page they should be redirected to the Admin log-in page.



The image shows a login form with the following elements:

- A label "Login" above a text input field.
- A label "Password" above a text input field.
- A checkbox labeled "Remember me" below the password field.
- A green button labeled "Login" to the right of the checkbox.