

**COMP4711 Assignment 3 (Winter 2009)**  
**Due Dates: April 18, 2009 23:59**

**Soccer League Processing**

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**Background**

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You are now ready to apply some of the other techniques we have talked about and practiced, in this final version of your fan website.

Enhance your web application as follows, using the same pairs as for assignment 1.

- (1) JSP to **prompt** for the URL of a team's online scores.
- (2) Servlet to extract those online scores and **convert them** into an XHTML document.
- (3) Servlet to process the XHTML document, and recreate or update your existing **history and schedule** data.
- (4) Interactive page to **predict** the outcome of your two teams playing each other.

There are several file sin share-out that you will find useful for this:

- **winnipeg.zip**, in examples, is an assignment 3 project from last year. It uses the tagsoup package to handle mal-formed HTML pages
- **tagsoup-1.2.jar**, in tools, is a Java package to handle ugly HTML. It does not actually convert anything – it provides a SAX parser that works even on mal-formed HTML. The jar should be put inside the lib folder of your webapp, for wasy reference. This package is similar in function to HTMLTidy
- **tagsoup-1.2-src.zip**, in tools, is the source code for the tagsoup library above. There are a bunch of caveats about building it with JDK5 or JDK6, and a dependency on a third party tool, but the source code might prove instructive.

Details follow.

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**Score Prompt (*update.jsp*)**

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The **update.jsp** page needs to present a form with two text fields, one each to hold the URL of your teams' schedule HTML page. Provide a default value for the text field, matching the input page/file URL which was correct at the time of assignment submission.

If you prefer, you can have two forms (on the same HTML page), each of which addresses a single team.

You will need to determine the default values for these pages manually, and then store them as webapp parameters in your project (hard-coded names would be a no-no).

The URLs may change over time, but hopefully they will be valid for the next few weeks :)

The action of your form should map to the servlet described in the next section.

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## HTML conversion (*servlet*)

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The update.jsp form should have a POST to a servlet in your webapp which will **process the supplied file** by converting it from potentially malformed HTML into XHTML, producing a new .xml file stored by your webapp. This servlet will then forward the request to a second servlet, which will update your original schedule.

There are not a lot of cross-platform packages to handle malformed HTML. The most popular is HTMLTidy, but it is a Windows program. The only cross-platform package we have found is “tagsoup”, a copy of which is in the COMP4711 tools folder.

More details to follow.

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## **Schedule Update (servlet)**

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This servlet needs to process the XML file produced by the previous step, and either update your existing schedule XML document, or produce a new one. When done, it should redirect the request to your webapp's home page.

More details to follow.

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**Predictor (predict.jsp)**

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This page needs to prompt the user for the team competed against, and predict the outcome.

More details to follow.

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## Assignment Tasks

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1. Implement the above (duh).
2. Zip up your netbeans project and submit it to share-in, using a suitable name, like ParryJimComp4711Ass3.zip.

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## Marking Guideline

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This assignment will be marked out of 20 ...

- 2 marks for the team list presentation, integrated into league.jsp
- 2 marks for the roster XML documents
- 2 marks for the roster DTD
- 2 marks for the roster XSL
- 2 marks for index.jsp integration of the rosters
- 2 marks for the schedule XML documents
- 2 marks for the schedule schema
- 2 marks for the schedule stylesheet
- 2 marks for schedule.jsp and history.jsp enhancements
- 2 marks for integration and consistency of the resulting webapp.

The marks guideline has yet to be adjusted from assignment 2.