COMP4711 Lab 5 (Winter 2009)
Dates: Feb 9-13, 2009

XML DOM Processing

Background

TV guide listings used to be available on the web, but that is now a subscription service. The DTD used, and some sample data files, are in the *data* folder of the **Lab5Starter** project. You think you have a killer idea for a webapp, to let people find shows of interest only, but need to build a prototype to prove that you can use data in XMLtv format. The **Lab5Starter** project has a *Main* class, with some methods that need flushing out – *who*, *when* & *where*.

Use only JDOM as your XML tool.

This is an individual lab.

Notes

A couple of things have come to light since the first set started working on this lab:

- The **Lab5Starter** includes a *lib* folder, with *jdom.jar* in it. The first time you open the project, it will have an unresolved reference. Right-click on the project, select the second last option (to resolve reference problems), navigate to the lib folder inside the project, and finally select the *jdom.jar* file.
- If you want to use JDOM with another project, the recommended practice is to create a *lib* folder inside that project, copy any needed third party jars (such as JDOM) into it, then add these jar files to the libraries inside your project – by right-clicking on the libraries tree node and selecting *add jar/folder...*
- The JDOM API and JAR files are in the *tools* folder inside *share-out/4711*

Lab Tasks

1. We talked about the DOM model in class, and about using JDOM to make programming for the DOM model easier.
2. There is no tutorial for JDOM, but the JDOM API is in the tools folder on share-out. You will need to refer to it in order to complete this lab.
3. Examine the **tvdata.xml** document. Make sure it makes sense.
4. The Main class in the project provides a framework ... you need to flesh out the **who(), when(),** and **where()** methods.
5. Each of these will need to have the appropriate XML document loaded into memory, with validation on if apropriate. You then need to traverse the DOM appropriately to address the purpose of each method.
6. An XML document is loaded into an in-memory DOM object using a code snippet like the one in the presentation.
7. Traverse the document by getting the root element (order), and then its children (which should be “item” elements).

8. Zip up your project and submit the zip file to share-in, using a suitable name, like ParryJimComp4711Lab5.zip.

Marking Guideline

This lab will be marked out of 10 ...

- 3 marks for who()
- 4 marks for when()
- 3 marks for where()

Submission

- Your zipped netbeans project, as noted above.
- Due by the end of the weekend (sunday 11:59pm)