COMP4711 Lab 8 (Winter 2009)
Dates: Mar 2-6, 2009

XPath Processing

Background

You have sample XML-TV documents from the lab 5 starter, which you have processed using a DOM approach, processed using a SAX approach, and done a basic HTML transform on. Now comes the fun part – transforming these to achieve the same resutls but only using an XSL stylesheet with some funky Xpath expressions.

This is an individual lab.

Lab Tasks

1. Build an XSL document to transform the BBC3 data into an HTML document, and bind the XML document to it. The result should be an HTML table, with columns for title & description of selected shows, one row per show. We only want to select those shows that have Dr Who in their title element, as we did for labs 5 and 6. Also show similar subtotals, namely how many shows of the total shown on BBC3 pertain to Dr Who. Let's go all out – show the percentage, of the total programming hours, devoted to Dr Who. Determine the length of a show by subtracting the start from the end.
2. Build an XSL document to transform the TVDATA data into an HTML document, and bind the XML document to it. The result should be an HTML table, with columns for title, description, channel, start and end time of selected shows, one row per show. We only want to select those shows that are aired between 8 & 11, i.e using just the hours and minutes part of the time attributes, those whose start or end is >= 8 and <= 11. We might as well show subtotals too, namely the # of selected shows and the # looked at. Show the number of these shows that are actually totally contained within the time slot (start and end within it).
3. Build an XSL document to transform a copy of the TVDATA document into an HTML document, and bind the XML document to it. The result should be an HTML table, with columns for title, description, channel, start and end time of selected shows, one row per show. We only want to select those shows that are news shows, determined by any of their category child elements containing “news”. We might as well show subtotals too, namely the # of selected shows and the # looked at.
4. Zip up your project, and submit the zip file to share-in, using a suitable name.

Marking Guideline

This lab will be marked out of 10 ...

- 3 for the “who” transform
- 3 for the “when” transform
- 3 for the “where” transform
- 1 for validation of these

Submission

- Your zipped netbeans project, as noted above.
- Due by the end of the Monday following Spring Break (Mar 16, 11:59pm)