Enterprise Systems & Architecture

Lab 1 (Week 1): XML Exercises – Basic XML

The primary aim of this lab sheet is to get you to think of XML as a document containing hierarchical data which starts with a single root element.

Exercise 1

- Download the *hits_initial.xml* from the **Lab 1** exercises folder on webcourses.
- Right-click on the file and try to open it in Internet Explorer (IE) / Microsoft Edge. IE will display any *well-formed* XML file with syntax highlighting – does IE display the XML?
- Using the *notepad* text editor, fix the XML so that it is well-formed – re-try opening it with Internet Explorer (for you own benefit, don't use *notepad++* or *sublime etc.* unless you can't spot the errors).

Exercise 2

- Download the *bathe_cat_initial.xml* from the **Lab 1** exercises folder on webcourses.
- This XML has a number of errors in it – using the *notepad* text editor, fix the XML so that it is well-formed and can be displayed properly in IE.
- Just for your own benefit, using the fixed version of your bathe_cat_initial.xml file, sketch using Microsoft Word or any diagramming tool you have (or pen and paper), a tree diagram of how you would associate this data in a hierarchy.

Exercise 3

- Consider the following data: a catalogue of CD's with each CD entry in the catalogue having information about the title, artist, company, price and year.
- Using Microsoft Word or any diagramming tool you have (or pen and paper), draw a tree diagram of how you would associate this data in a hierarchy.
- Create a text file called catalogue.xml and enter some sample XML data into it that conforms to how you have specified the data in your diagram. View your xml file using IE.

Exercise 4

- Consider the following data that company A wants to transport to company B.
- An customer order for goods which contains the following information:
    - Order ID
    - Person responsible for handling the order
    - The "Ship To" address which has a name, address lines, city and country
    - A set of items, each of which consists of a title, id, quantity and price
- Using Microsoft Word or any diagramming tool you have (or pen and paper), draw a tree diagram of how you would associate this data in a hierarchy.
- Create a text file called orders.xml and enter some sample XML data into it that conforms to how you have specified the data in your diagram. View your xml file using IE.