Tutorial 9

Working with data: XML

1. What is XML?

Extensible Mark-up language.

1. What is DTD?

Document type definition.

1. Create a new folder on your W drive, e.g. w:\ci135\sem2\session09. When asked, create any new \*.xml or \*.dtd files in this location. Each should have sample (fake) data to demonstrate document structure.
2. Create an XML document called stock.xml to represent stock information for an online DVD shop. The shop sells many DVDs, each has a title, cast, director, synopsis, genre, release date, price, and number of copies in stock.
3. Create an XML document called courses.xml to represent the module information for your course. A course has several modules. Each module has a title (e.g. "Introduction to Web Development"), code (e.g. "CI135"), number of credits (e.g. 20) and the level it’s taken (e.g. 4).
4. Create an XML document called students.xml to represent details of a student at the University of Brighton. Student information is composed of their name, date of birth, which course they are enrolled on, department, and current level of study.
5. Create an XML document called employees.xml to represent employee information for a software development team. Each employee has a firstname, surname, role (Manager, Developer and Designer), employee ID. Each employee is managed by exactly one other employee, except the manager who is not managed.
6. Edit your answer to question 4 by adding an internal DTD. Make sure your XML validates by running it through the W3C validator.
7. Create external DTDs for the XML documents you created for questions 5 and 6. These files should be called courses.dtd and students.dtd respectively. Update the XML documents to use these external DTDs, and validate them against the W3C validator.