XML practice **Lab Tasks**

1. Download the reviews_bad.xml and Employees.xml files from link on web page

2. Task #1: Use an XML editor or a text editor (make sure you can save as ASCII text) to edit the "reviews_bad.xml" XML file to correct the DTD and to correct the XML so that it validates using https://www.xmlvalidation.com

3. Task #2: Use an XML editor or a text editor to create an XML file with an embedded DTD (see Employees.xml in materials directory for an example of valid XML file with embedded DTD), using elements and a couple of attributes, to describe:

   - Your name (distinguishing first, middle, surname)
   - Student ID
   - Favourite music groups
   - Favourite County in Ireland
   - Expected date of graduation

   Again use https://www.xmlvalidation.com to validate.

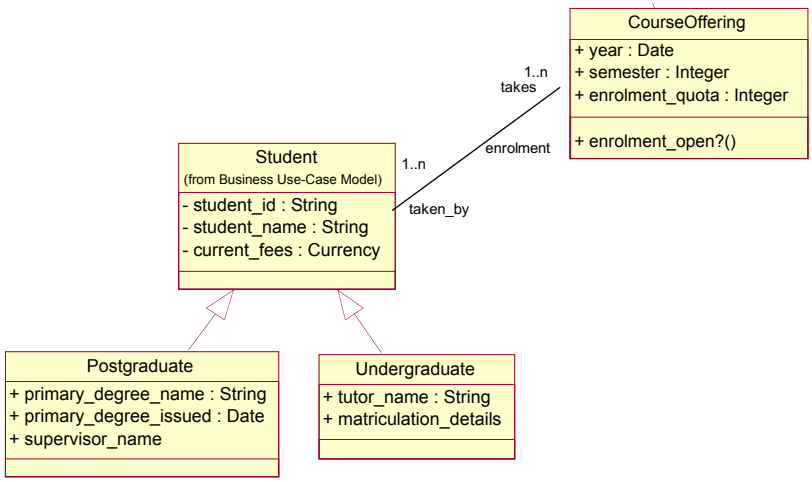
4. Task #3: Download Core Package Java BaseX to your laptop or your U: drive or to D: drive on PC (http://basex.org/products/download/all-downloads)

5. Task #4: Open up BaseX, create a database, and load the XML files you created in Tasks #1 and #2 and explore using the BaseX visualisation tools.

6. Task #5: Create two XML files (with embedded DTDs) that represent the diagram class model below. Just use ELEMENTS rather than any attributes. One XML representing Students (with a mixture of individual Undergrads and Postgrads included), and taking care to represent the inherited attributes. One XML representing CourseOfferings (especially taking care to represent the association between it and Students file)

with a number of sample CourseOffering instances. You do **not** need to take the XMI approach discussed during lectures.

Validate using the https://www.xmlvalidation.com
Load into your BaseX database and visualise.



7. Task #6: Have a go at creating some of the XML needed for your group project