COMPX222 Assignment 4 - Project (25%)

For the project you should work in groups of 2-3. You may use any JavaScript/CSS/PHP libraries that you like but should not use any code generators. Make sure that everything is self-contained in your website folder and use only relative pathnames so the website is portable.

The topic is: **Create a catalog website generated from an XML file via PHP on any topic.** In other words, the type and subject of the catalog is completely open. For example, you could design a site devoted to sci-fi movies, or a site dedicated to bread recipes. Each item in the catalog should have at least five fields (e.g. title, length, director, rating, screenshot) and there should be at least 20 items in the catalog, more if you like. All catalog data should be stored in a single file catalog.xml and the website pages partially or fully generated via PHP from the XML. Items should also have associated images (e.g. book covers) which will need to be stored separately to the XML file in an image's directory; but the XML file should contain paths to the images.

The UI should allow the user to view a list of all items in the catalog with options to sort the items in at least two different ways (e.g. alphabetically by name or numerically by year). Allow more sorting options if you like. The user should also be able to search for items (e.g. by title), and then click on the item and see all that item's details in a single page. So, in other words there should be two main ways to view the data: in a summarised list form, and in a more detailed individual page per item way. The images associated with the item should be shown on the individual item details page.

A good approach to success in the project would be to plan out the work in stages:
Stage 1 — Decide on the website topic; create your styles and design the website as a paper prototype; collect all the data into a single XML file
Stage 2 — Implement the catalog page(s) and functionality for listing, sorting and searching items
Stage 3 -- Implement the pages for seeing details of a single item that can be reached from the pages created in Stage 2.
The key requirement is that all data is stored in the XML file, and not hardcoded in the HTML. This is realistic since a dynamic website like this would be updated by updating the XML file.

For submission:

- put your website on your webapp personal webserver and make sure it works -- test everything prior to submission!
- create a single page PDF with (i) the name and ID of everyone in your group, (ii) a link to your website and (iii) one or two sentences outlining the contribution of each group member (e.g. "All group members contributed equally to this assignment" or "Person X did 66% of the work and person Y did 34%"). Upload the PDF to moodle before the due date.