**CMP306 Dynamic Web Development 2**

**Practical 2 – Add More Realistic Data to your site.**

In the first week you will have put 12 items into a database and written some HTML / PHP to display these items on your site. You are asked to add to this basic site this week by adding images and articles. The focus, in the commentary, will be on the database design.

**Addition 1 – Images.**

You are asked to add more images to the site. So, each item may have any number of images but must have at least one image. You can add the images statically to the site or have a rolling slideshow. There are a number of free slideshow widgets available. Bootstrap includes one which you may like to use.

**Addition 2 – Articles.**

You are asked to add articles to your site. An article can be linked to one or more item. So for example a report of the football match between Dundee United and St Johnstone should be linked to both teams. Included in the item’s Bootstrap card should links to all articles related to the item. Once clicked the article will be displayed. You also need a wy to go back from the article to any one of the relevant items.

An article will contain a title, author(s), text, image(s) and potentially a video and external link(s).

**Step 1 – Database Design.**

You will have a database design from the tutorial. Implement these tables and enter some realistic data, catering for all the possibilities allowable in the database. So Some items will have one image, some more than one. Some items will have no articles, other one and others more than one. Articles will have a variable number of images, may have a video. You get the idea? I have no issue with you copying articles from elsewhere in the internet but PLEASE make the content realistic and NOT loren ipsum as the latter is too uniform.

**Step 2.1 – Change the item page**

You will need to alter the page with the items from last week to take account of the changes to the images and the requirement to include articles.

**Step 2.2 – add the article page**

Create the page (PHP) to display an article and to link this in from an item and a link back to any relevant items.

**Commentary**

This week the focus is on Relational databases. For the critical appraisal / summary this week you need to:

* Write out the definition of all tables within your database from the tutorial including the items, images, articles, users and comments.
* For each attribute in a table give the datatype.
* Give 3 examples, preferably related to the site, of issues with the relational database model.

Dr Geoffrey Lund

g.lund@abertay.ac.uk