

SENG365: Web Computing Architecture:

Assignment 1, 2016

Due: Tuesday 29 March 23:55

Drop dead date: Tuesday 5 April 23:55

Worth: 10% of final grade

Lateness penalty: 15%, no late submissions accepted after drop dead

1 Aims

The aim of this assignment is to give you a bit more experience with implementing a simple non-JavaScript-ed website using the CodeIgniter framework. The focus is on functionality and the underlying principles rather than on producing a fancy looking application. In particular, you are not allowed to use any PHP from outside this course other than the CodeIgniter framework and code from lectures and labs. JavaScript is not permitted except that you may, if you wish use trivial, “on <some-event> submit” functions. CSS styling of the site is not a part of the assignment: aside from personal satisfaction, you will receive little or no reward for a beautiful site, though you may pay a small penalty for undue hideousness. The beauty of your code will, however, be of relevance.

2 Specification

You are required to extend the product browser for the Northwind database to a slightly-more general Northwind website that provides at least:

1. A site-wide “banner” (which might be just a large-font site name).
2. A site-wide navigation menu with links to the product browser, the order browser and the *About* page (see below).
3. The existing product browser from the labs.
4. An order browser that lets users look at the *Orders* and *OrderDetails* tables from the database, plus other linked information where applicable.
5. Some use of session management, such as a rudimentary login capability.
6. An “About this site” page that documents your site: what it does, known bugs, important design decisions, any important usage information for the marker (e.g. a username/password if you've implemented such a capability).

Your site must be accessible by the markers on campus with a URL of the form

<http://csse-studweb3.canterbury.ac.nz/~username/365/northwind/index.php>

Your code will be marked according to the following general attributes:

- the functionality provided;
- appropriate use of the CodeIgniter framework (correct use of models, views and controllers etc);
- the readability and usefulness of the “About this site” page;
- conformance to coding standards.
- Have you gone the extra mile (such as nice css, an extra special order browser etc)

3 Implementation Notes

Some hints, suggestions etc.

3.1 Displaying Orders

The order browser is the most significant bit of added functionality. Make sure you understand how orders are represented in the database, starting with the *Orders* and *OrderDetails* tables, before commencing this

step. When displaying information to the user, keep in mind they are normal humans, not programmers. Don't display information that can't possibly be meaningful to them, such as *id* fields or cryptic database column names. Do make it easy for the user (who is assumed to be a *Northwind* employee) to browse orders and to see all the relevant details for each order, including all ordered items.

3.2 Security

As we haven't covered security yet in the course, the only requirements are that any data entered into a form by a user that might be used in an SQL query is handled by the mysql CodeIgniter helper, similar to labs. This is to prevent SQL injection attacks, but more on that later in the course.

3.3 Submission

To submit the assignment, first make a zip archive of the whole project tree, rooted at your `public_html/365/northwind` directory, calling it `usercode.zip` where `usercode` is your `abc123` code. Submit that file to the Assignment1 dropbox on Learn.

Don't forget to tidy up and polish your *About this site* page to reflect the final state of your submission.

4 One final requirement

Have fun!