CSC2024 Web Technology & Programming

Project 01

Submission details

- Due before Thursday the 19th of December 2013 (due before 12 noon)

PAPER
Submit one paper copy into Brian's office (BCB). Normal late submission rules apply. No need for fancy bounded copies. All that is required is one acetate per assignment submission. Make sure pages have a staple with a signed cover sheet.

SOFTWARE
Upload source files (web site to be assessed) to
 //web2.eeecs.qub.ac.uk/*yourstudentnumber*/project01

Replace *yourstudentnumber* with your QUB student number and create 'project01' folder.

Also upload a digital copy of the paper-based material to
//web2.eeecs.qub.ac.uk/*yourstudentnumber*/project01paper

Create a project01paper folder.

Purpose

The purpose of the assignment is to assess your understanding and development skills of client-side and server-side technologies. It is an individual assignment with no group work. PLEASE DO NOT PLAGIARISE. I do support collaboration and the use of your peers to help you debug your code. The assessment process will check your code against other submissions and other external sources (web, books etc). More on this in the lectures.

Software Requirements

Small commercial business CMS System

You are required to build a small commercial site that promotes a local business online. For example a local soap seller wants an online presence (business website) with the ability to change the content e.g. products for sale on a daily/weekly basis without the need to learn any web technology (e.g. HTML, JavaScript, web server management, SQL etc). Middleware solutions are NOT allowed e.g. Drupal, Joomla etc.

You are free to choose what the small business sells (the products: soap, meat, shoes, hats etc) but NOT allowed to build a site for a 'service' business e.g. hairdresser. If can either be a 'real' business or made-up.

The ability for web users to purchase products will NOT be required to fulfil the specification.

There are several sections (key areas) to the site that will need implemented:

I.   Design and develop the front-end web UI (consisting of at least 5 pages and no more than 10)
II.   Design and develop the UI for the content management system (back-end)
I.   Develop the content management system database (holds the data for each front-end page)
II.   Non-technical person can update the site using the CMS UI (back-end site)
III.   Security on the front-end and back-end site
IV.   Compatible with the latest version of IE, Firefox and Chrome (BCB lab versions).

Grading

The distinction between the classifications is as follows...

Classification	Requirements	
Pass (40-49%)	Some core requirements meet. Server-side connection with limited functionality Basic UI	
2:2 (50-59%)	Nearly all requirements meet. Server-side connection with functionality Modern UI	
2:1 (60-69%)	All requirements meet to a high standard Server-side connection with excellent functionality Modern UI	
1st (70%+)	Same as 2:1 Extra backend functionality developed (code not given in labs/notes/example files).	

Please note extra functionality will be considered to be back-end server side functionality rather than client side functionality. For example the front-end site that implements a gallery rotation mechanism on the home page using JavaScript framework is NOT considered to be extra functionality. Although if the back-end of the site allows an non-technical person to change the images, speed and animation type of the gallery rotation mechanism in the front-end then this would be considered extra functionality.

Please be aware that if you have extra functionality you document it (more on this in the paper submission). Also document any attempts that were developed but did not make it into the final website submission. These files should be placed within a sub-folder called 'experimental'.

Documentation

You are required to submit two documents.

1. Technical document to the client's webmaster. Include:
   a. a complete site map which clearly shows the location of your selected key screens
   b. what cross-browser issues have been identified
   c. a data structure of the data flow within the system (ER diagram)
   d. a list of the functionality checked against the client's requirements
   e. extra functionality successfully implemented
   f. attempted extra functionality but NOT successful implemented.

2. A help manual for the client end-user (non-technical user). Should detail descriptions of how to perform the key functionality on the site (the back end functionality). For example:
   a. URL of front-end site
   b. URL of back-end site
   c. administrator authorisation details
   d. ability to change content of the home page.

Marks

Project 01 is worth 35% of the total marks. 30% will go towards the software while the other 5% will count towards the documentation.

Submission Details

Required to submit and test your site (source files) to the \\web2.eeecs.qub.ac.uk web server. This server will be running web services that are similar to the XAMPP server that run locally on the lab PCs. It is your responsibility to test the site on the web server by using the following URL:

http://web2.eeecs.qub.ac.uk:85/*yourstudentnumber*/project01

1. A folder called 'project01' should hold a working site with database connections all fully functioning
2. A folder called 'project01expertimental' should hold all attempted but non-working/not implemented functionality
3. A folder called 'project01paper' should hold both digital copies of the required documents

Good luck. Please note that ALL code to achieve a 2:1 will be covered within the lectures, ilectures and labs. 1st grade will be awarded to a project that goes above and beyond the requirements.

Questions about the assignment should be sent to the course tutor John Busch (j.a.busch@qub.ac.uk) or raised during classes.