LSBU
EST 1892

Coursework Specification for CSI_5_WET

Read this coursework specification carefully, it tells you how you are going to be assessed, how to submit your coursework on-time and how (and when) you'll receive your marks and feedback.

Module Code	CSI_5_WET
Module Title	Web Technologies
Lecturer	Maria Lemac
% of Module Mark	60%
Distributed	12 November 2024
Submission Method	Submit online via this Module's Moodle site
Submission Deadline	**By 23:55 on 19th December 2024 (Report documenting development of your website)** Face to face **demonstration of your web application** will be on 17th or 19th December 2024 during the regular timetabled sessions. (You'll need to let me know which day is best for you.)
Release of Feedback & Marks	Feedback and provisional marks will be available in the Gradebook on Moodle from

Coursework Aim:

The coursework for this module consists of building, and documenting the process of building a website. From the very beginning you need to be clear that this coursework consists of ***building and documenting the process of building*** the website. Majority of the marks will be awarded for your record of its creation and the explanation of the techniques (code) used in developing it.

Site Content

You are given an opportunity to choose the content of your site. However, it needs to be carefully chosen to allow a suitably complex website to be constructed. No two students will be permitted to build websites on the same subject. ***You must provide a short description of your idea for the web site to your tutor. The tutor needs to approve it before you can proceed with the rest.***

The content of the site will have no bearing on the marks awarded, but the logical way it is structured and the way it is presented will, therefore, the content should be seen as a *vehicle* for demonstrating web design techniques. You should not be spending a lot of time writing material, rather you should be using text which is available for reuse such as text from Wikipedia which can be reproduced as long as it is correctly attributed. Each page should include a notice in the footer that it is a demonstration website developed as an educational exercise and that it incorporates text and media from Wikipedia under the creative commons licence.

Requirements

The web site/application must have 4-6 pages. In general, these pages will correspond to HTML files, although in certain advanced cases alternative structure will be considered. These pages must be linked together in a logical way with a well-designed navigational approach. In addition to appropriate content there has to be some interactive features / elements within your website. It is expected that…

- You develop a template, then use this template to develop pages for your site (the main area of each page can be different in structure).
- Home page can be different in structure from the template (succinct introduction to the site; appealing appearance)
- There has to be a logical separation of the topics into pages
- Where possible and appropriate, images, videos and audio files can be used
- Use JavaScript for appropriate features

Deliverables

There are two main components to the coursework, the development report, which is worth 80% of the marks, and the demo and website itself, worth 20% of the marks. Details of each of these follow.

1. Development report

The aim of the report is to detail the work you have done. Imagine that someone is paying you to create this website and now that it is built they are arguing that they should pay less! This report should explain just how much work went into it and what a high quality product it is and why it is worth every penny!

The following sections are **required** and **must** be included in your report, but if you have done advanced additional work you should add extra sections to describe that.

Part 1: Web site/application Specification (10% of the mark)

This section should include the specification (short description) of your web site/application (this is the idea for the site you discussed with the tutor). Anything else that was part of planning phase of your website needs to be included such as a site map. The site map should be accompanied by appropriate narrative related to how you have divided your topic into logical pages. Some initial design decisions (sketches of your pages) should also be included. You should use some wire frames software.

Part 2: HTML and Site Structure Documentation (20% of the mark)

Site structure

You should describe the structure of your site including:

- *How you have **structured the site** - typically the links between the various pages, this will be the navigation section/s of your site*
- *How your files are organised on the server - where you store your images, styles and scripts, and why you chose to do it that way*
- *Semantic mark-up used to structure each document - You should explicitly explain how you have structured your pages, how you have used semantic mark-up and in each case give your reasoning for the way you have used it*
- *Non-semantic mark-up – explain where you have used it and for what reasons.*

- ***Included Media -*** *You should indicate where you have included media files using HTML5 tags to embed them and explain how they work.*
- ***Validation Reports -*** *You should include the output of the W3C validator set to its experimental HTML5 settings for each of your pages and comment on any warnings it outputs.*
- ***Browser compatibility notes*** *- You should document any HTML tags or attributes you have used which are not supported across all browsers and comment on your reasons for doing so. It is acceptable to do this as long as you know you are doing it!*

Describe the structure of the site, <u>do not</u> include styling as it should be in the second part of the report, however, <u>the html code of the site with no styling or the content</u> should be provided when describing the structure.

Part 3: CSS Documentation (20% of the mark)
<u>You should include fragments from your CSS in all these explanations.</u>
You should describe your main look and feel, including:
- ***The reasoning behind your choices for layout****, colours, fonts and backgrounds - sensible screenshots*
- ***Explicit descriptions of how the various styles were implemented (the code provided)***
    - *where you have used HTML tags as selectors, say so and say why*
    - *where you have used styles for IDs, say so and say why*
    - *where you have used classes, say so and say why*
    - *explain any complex (nested) selectors you have used*
    - *where style rules have been cascaded you should explain this*
    - *where dynamic effects such as transitions have been used these should be thoroughly explained*

- ***Responsive Design*** *- You should describe how you have made your web application responsive to different screen sizes.*
- ***Browser compatibility notes*** *- You should document any CSS features you have used which are not supported across all browsers and comment on your reasons for doing so. Illustrate these differences with screenshots if possible. It is acceptable to do this as long as you know you are doing it!*

Part 4: JavaScript Documentation (15% of the mark)
You should document all uses you have made of JavaScript*. Where you have used JavaScript in preference to using features of HTML5 and CSS3 which could have achieved the same results you should give your reasons for doing so. AJAX can also be part of this section.*
Please note, the code provided needs to be explained in detail. (If you cannot explain it, do not use it)

Part 5: Accessibility Guidelines and Evaluation (10% of the mark)
*Briefly Explain the W3C Web Accessibility Initiative Web Content Accessibility Guidelines (you are expected to reference the W3 sources). Comment on any aspects of your design which you know do or do not meet these guidelines. It is important to demonstrate your knowledge and understanding of the guidelines and that you **know** whether or not you have followed them.*

<u>Overall quality of the report (10%)</u>
These marks will be awarded for the overall quality of the report and the work presented. This includes the presentation of the report and the use of correct English grammar. Formal report structure is expected (title page, contents, intro, appropriate headings/subheadings, referencing).

Break down the code into smaller snippets where possible. Also, make sure you put the snippets of your code into a text box (example is below) using monotype font type, e.g. Courier New, the size can be 11 point, single spacing. All the figures including the code snippets must have a caption unless it is one line of the code that is linked to the code with the caption (example below).

Example:

```
function upload(){
  var imgcanvas = document.getElementById("can");
  var fileinput = document.getElementById("finput");
  image = new SimpleImage(fileinput);
  image.drawTo(imgcanvas);
}
```

Figure 1: Image Upload with JavaScript

The function in Figure 1…

The <canvas> element is used to… therefore, the following line has to be included in the html file.

```
<canvas id="can" style="border:1px solid #000000;"></canvas>
```

Summary of report marks breakdown:

Specification 10%

HTML documentation 20%

CSS documentation 20%

JavaScript documentation 15%

Accessibility evaluation 10%

Overall Quality 10%

Total 85% for the report.

Note. These mark weightings are for guidance. In certain cases, they may be varied to account for alternative approaches being used (for example, where JQuery has been used rather than CSS for text animations, marks 'lost' under CSS could be compensated with extra marks under JavaScript, assuming the documentation deserved it).

2. Demo of the website (the website is hosted, can be accessed and demo is given) (15%)

Remaining 15% of module mark will be awarded for the following:

Demonstration of the website / completeness
Structure and logical organisation of information
Navigation and complexity
Styling, aesthetics and sophistication, included media
Correctness (working without faults)
Realism / professionalism of site

This is an individual assignment. Collaborations are not allowed.

Coursework Details:

Type: **(what needs to be provided)**	There are **two parts to** this assignment: 1. **Report documenting the development and including the URL of your site** 2. **A short demonstration of your website** (max 10 minutes long, face to face or online)
Word Count:	The maximum word limit is [4000 words]. Footnotes will not count towards word count totals but must only be used for referencing, not for the provision of additional text. The bibliography will not count towards the word total. If you exceed the word limit, the excess might not be considered. Talk to your tutor about this before you submit!
Presentation:	▪ Work must be referenced, and a bibliography provided ▪ Work must be submitted as a Word document (.doc/docx) or a PDF ▪ Course work must be submitted using Arial font size 11 (or larger if you need to), with a minimum of 1.5 line spacing ▪ Your student number must appear at the front of the coursework. Your name must **not** be on your coursework.
Referencing:	Harvard Referencing should be used, see your Library Subject Guide for guides and tips on referencing.
Regulations:	Make sure you understand the University Regulations on expected academic practice and academic misconduct. Note in particular: ▪ Your work must be your own. Markers will be attentive to both the plausibility of the sources provided as well as the consistency and approach to writing of the work. Simply, if you do the research and reading, and then write it up on your own, giving the reference to sources, you will approach the work in the appropriate way and will cause not give markers reason to question the authenticity of the work. ▪ All quotations must be credited and properly referenced. Paraphrasing is still regarded as plagiarism if you fail to acknowledge the source for the ideas being expressed. **TURNITIN:** When you upload your work to the Moodle site it will be checked by anti-plagiarism software.