Web Development 1 Project Descriptor

(DT228 and DT282 Year 1)

Submission date: Saturday 19thDecember 2020 @ 6pm

Marking:

The project is worth 35% of the module marks.

Project Submission:

All submissions must be **uploaded to Brightspace**. If you are experiencing difficulties with the upload please contact Jonathan asap!!

Rules for late submissions:
- Week 1: 6% for the first day, 3% for each day thereafter.
- Week 2: 3% for each day thereafter.
- Week 3: No submissions accepted, zero grade.

Note: All penalties are calculated per day started.

Project Brief:

You are required to develop a website for any topic of your own choice. Potential ideas could be hobbies, websites for a club, business website etc…

Overview:

- This is an **individual project**.
- A weekly log must be completed and uploaded to Brightspace on a weekly basis. The log should describe and discuss the work completed on the project for the given week and any issues or difficulties that may have arisen. There is a template on Brightspace that must be used to complete the log.
- A project report needs to be completed. The report details are listed below.

(Note: the topic chosen must be clean, appropriate and non-offensive. If you are unsure about your project topic please contact Jonathan asap)

Project Requirements:

Site Requirements

5 **different** content pages demonstrating the following functionality:

- ➤ Header section
- ➤ Menu Bar
- ➤ Footer section
- ➤ Ordered List
- ➤ Unordered List
- ➤ Tabular data structure
- ➤ Images
- ➤ Videos
- ➤ Variety of good HTML5 semantic tags and content.
- ➤ Embedded content (News / Weather / Social Media etc…)

CSS Requirements

- ➤ The following features must be demonstrated in your CSS:
- ➤ Responsive design
- ➤ Relative metrics
- ➤ Relative paths
- ➤ CSS Combinators
- ➤ Reusable styling for containers to offer consistent layout across all pages.
- ➤ CSS Style Reuse

JavaScript Requirements

3 pieces of JavaScript functionality needs to be incorporated into the website. (Note: The validation for the contact form below is not counted for this requirement)

Contact Form

A contact form must be added to the site demonstrating the following:

- ➤ text input
- ➤ radio buttons
- ➤ checkbox
- ➤ textarea
- ➤ Dropdown list
- ➤ Button
- ➤ (Use JavaScript to validate three different types of form fields)

Best Practices

HTML / CSS / JavaScript must be kept completely separate.

Site Content

The content for your site must be meaningful. Placeholder content is not acceptable.

Project Report (30%)

Problem Description (10%)
- ➢ Detailed description of the website and the content on offer.
- ➢ Describe the archetypical users of the site.
- ➢ What problem does the site solve?

Research (10%)
- ➢ Research other websites similar to your site.
- ➢ Evaluate the site layout and site content.
- ➢ You must look at 3 websites as part of your research.

Technology Selection and Site Architecture (20%)
- ➢ Version of HTML/CSS to be used
- ➢ Plan for site layout and responsive design.
- ➢ How do we expect users to view the site (Phone/tablet/PC etc...)?
- ➢ Cross Browser Compatibility strategy?

Low Fidelity Prototype (10%)
- ➢ Create a Lo-Fi prototype to describe the site content and layout for the customer/stakeholder.
- ➢ You must evaluate your prototype using appropriate heuristics.

Development Plan (10%)
Describe the process of how the site will be created.
How CSS rules were created to work on the 5 pages (CSS reuse).

Testing Plan (10%)
- ➢ Explain in detail the strategies used to test the website. (eg. HTML validation, CSS validation).
- ➢ Is the site Responsive? Test screenshots from Chrome Developer must be included in this section.

Site Evaluation (10%)
- ➢ You must describe how you evaluated your website using appropriate heuristics.

Deployment (10%)
- ➢ Describe how the website was made available online.
- ➢ Describe the techniques used for Search Engine Optimisation (SEO)

Weekly Logs (10%)
- ➢ Your weekly logs must be included in the Appendices section of your report. (ie. At the end)

Grading Rubric

	70+	60-69	50-59	40-49	0-39
Quality of Markup and project conventions / structure 15%	Site validates with no errors or warnings. Good usage of HTML5 semantic tags for appropriate site content. Site structure completely follows separation of concerns and excellent project conventions.	Site validates with minor warnings Site structure mainly follows separation of concerns and good project conventions.	Site validates with minor errors. Project offers some structure and some coding conventions.	Site validates with many errors. Minimal attempt at project structure and/or coding conventions.	No DOCTYPE used on the html pages. Many errors in the HTML of a very basic nature. Structure / conventions aren't evident in the solution and would be difficult for a developer to maintain the website
Functionality and Content 20%	Advanced content and functionality. Many sections with clearly differentiated functionality included	Good content and functionality, with some advanced features not included	Adequate content and functionality	Poor content and functionality, little variety between the different pages	Few pages submitted, all with the same functionality
Interface Quality 15%	UI very professional looking in appearance and renders exactly the same in multiple browsers	UI almost professional in appearance and renders exactly the same in most browsers	UI is adequate in appearance. Page renders OK in some browsers.	UI lacks styling and is appearing as the browser dictates.	UI has little styling and is not fit for purpose.
Project Document 30%	Very complete project document. All sections completed to a very high standard.	Good project document. All sections completed with appropriate content.	Adequate project document. Some sections not completed or not enough content included.	Minimal project document. Sections not completed or not enough content included.	Project document not completed / not fit for purpose.
Complexity 20%	Excellent advanced usage of HTML/CSS/JavaScript	Some evidence of advanced use of HTML/JavaScript /CSS	HTML, CSS and JavaScript usage based entirely on in class examples and Lab Work	Little use of advanced usage of HTML/CSS/JavaScript	No CSS or JavaScript used in the project