

Web Development Coursework for the end of term: final website assignment

This assignment consists of two parts – a website and a report on the website design and production. These are marked as one assignment

Brief

Website

Where will you be in 10 years? Your brief is to **design and build a responsive website** that represents the professional portfolio of a version of you in 2034. This can be as realistic or as fantastical as you like, provided you are explicit about the effects of your decision on the design and execution of your assignment.

Your web site should have 5 pages with different types of material and media, including video and sound clips if relevant.

In addition to the web site, you will include a report as a file called **report.html** with associated images etc. in your site's base directory. This will explain what you have learned in the process of building your site, where you found your information, and how you have adapted any resources (if applicable). The structure of the report is described in the next section.

You should **avoid** making use of primarily server side or pre-compiled frameworks such as **React** or **WebPack**. If you use CSS templates, for example with **Bootstrap**, make sure you customise it enough to get credit for your own work – and **make clear which parts of the code are yours** and which parts come from the template library. You may find it safer to avoid any CSS templates or libraries, but they are not prohibited provided they are clearly referenced and that you have written your own code as well.

Report

Your report.html should contain the following (in this order):

- Your name
- **Introduction:** What is the essential story being told by your portfolio site? Describe the version of you that it is about. What is the audience you are addressing? What type of structure did you choose to implement?
- **Inspiration:** State **3** professional portfolio sites (not advices articles or portfolio templates) that have inspired you when creating your website. What did you learn from them?
- **Accessibility:** State **3** ways in which your site is accessible.
- **Usability:** State **3** ways in which you considered the usability of your site.
- **Learning:** State **3** things you had to learn or find out to create your site. How did you achieve that?
- **Evaluation I:** What aspects of your work do you think were particularly successful? Why?
- **Evaluation II:** What aspects of your work could be improved? How might you do things differently another time?
- **Resources:** What resources did you use in your work? List any sources of information, libraries, plugins, code or tools (you should also indicate inclusions from other sources within your code using comments)
- **Appendices:** Site map (if useful), wireframes and mock-ups

Preferred citation formats

Format for citing code:

[1] Author Initial, Author Surname, 'Title of program/source code' (), Year Published. [Type]. Web address or publisher.

Example:

[1] P. Korponaić, 'Meteor Kitchen examples' (commit 0abcf1c), 2016. [Source code].
<https://github.com/perak/kitchen-examples/tree/master/example-minimal>

Format for citing online resource:

[1] Author Initial. Author Surname, 'Title', Year Published. [Online]. Available: <http://Website URL>. [Accessed: 10- Oct- 2013].

Example:

[1] Handlebarsjs.com, 'Handlebars Reference', 2016. [Online]. Available:
<http://handlebarsjs.com/reference.html>. [Accessed: 20- Sep- 2016].

Materials from the web

You can use almost anything you like that you can find on the Web, but you should avoid anything that is not open or out of copyright (e.g. that costs money or requires login or registration).

On your report page (and, wherever possible, in your code) you must describe what you have taken, where you took it from, and what you have done to it.

If you copy-and-paste something almost without change, you must say so clearly and give credit to the source. You will get credit for making imported code fit in with and enhance your own design, for understanding and using complex libraries, or for altering and enhancing material that you have used. Showing you can adapt existing code is particularly valuable.

In order to be clear which material you have written and which you have used from elsewhere you will be expected to provide comprehensive comments within your HTML, CSS and Javascript files indicating code you have used, code you have adopted and edited and code that you have written.

Marking Criteria

Marking criteria fall under the five broad categories below. The marking criteria for this project are as follows (each criterion has an equal weighting of 5%):

- Site (4 criteria = 20%):
 - o Navigable 5-page site with working URLs for the site hosted on the static web page system
 - o Tidy directory structure and clear file naming
 - o Site is accessible
 - o Site has good content that matches the briefing document
- HTML (3 criteria = 15%)
 - o HTML is valid and well formed
 - o HTML elements are well chosen, with semantic elements and attributes used where possible
 - o Rich commenting of HTML
- CSS (5 criteria = 25%)
 - o Use of external stylesheets
 - o CSS is used to make an appropriate, aesthetic design
 - o Layout is appropriate and interesting, matching the planning goals
 - o Website is responsive, with **explicit** responsive behaviour in stylesheets

- o Rich commenting of CSS
- JS (4 criteria = 20%)
 - o JavaScript is successfully called and interacts with the DOM
 - o JavaScript has an essential role in some aspects of the website, satisfying planning goals
 - o Advanced use is made of JavaScript, or JS library is used in a sophisticated way
 - o JS is comprehensively commented
- Report (4 criteria = 20%)
 - o Wireframes are comprehensive and representative. Mockups (and, where relevant, wireframes) reflect the responsive aspects of the site
 - o Accessible design
 - o Design and planning is good (focus on Introduction, Inspiration, Usability and Learning sections), with clear relationship to briefing document and target audience
 - o Reflection on work shows critical and analytical awareness

SITE. Core functionality of the web site as a whole				20 marks
Site 1 Navigable 5-page site with working URLs for the site hosted on the static web page system	<p>No link provided or URL fails. Site has fewer than 5 pages</p> <p>0 marks</p>	<p>URL works, but dead links are present or some resources fail to load; or navigation is confusing.</p> <p>2 marks</p>	<p>URL works and all but a few very minor links and resources work. Navigation is intuitive.</p> <p>4 marks</p>	<p>URL and all links and resources load without error. Navigation is intuitive.</p> <p>5 marks</p>
Site 2 Tidy directory structure and clear file naming	<p>All files in the same directory, directory structure confusing, or file naming confusing</p> <p>0 marks</p>	<p>Subdirectories for media or CSS files but not both. Or directory structure good, but file naming confusing</p> <p>2 marks</p>	<p>Subdirectories cleanly separate file type, file names would be clear to a competent newcomer</p> <p>5 marks</p>	
Site 3 Site is accessible	<p>No evidence of accessible code, or accessibility rules incorrectly applied (e.g. <code></code>)</p> <p>0 marks</p>	<p>Some evidence of accessible code (e.g. alt attributes)</p> <p>1 marks</p>	<p>Broadly accessible code, but with notable flaws</p> <p>4 marks</p>	<p>Excellent accessible code</p> <p>5 marks</p>
Site 4 Site has good content – using media where relevant. Content is integrated to draw a rich, coherent and compelling picture.	<p>Content is poor, minimal or mostly placeholders</p> <p>0 marks</p>	<p>Content is appropriate in quantity and target (within the scope of a short project). It matches the briefing and planning documents.</p> <p>2 marks</p>	<p>Content is excellent and well-supported by media. It tells its story well</p> <p>5 marks</p>	
HTML. Building a web site HTML skeleton				15 marks
HTML 1 HTML is valid	<p>HTML does not validate as HTML5</p> <p>0 marks</p>	<p>HTML does not validate as HTML5, but there are very few issues – either previously valid syntax, minor typos or minor issues with external boilerplate code.</p> <p>2 marks</p>	<p>HTML is valid</p> <p>5 marks</p>	

HTML 2 HTML elements are well chosen, with semantic elements and attributes used where possible	<p>HTML elements are sometimes incorrect or misunderstood (e.g. using table, center, hr or br for visual design)</p> <p>0 marks</p>	<p>HTML elements used appropriately, but limited range used (e.g. over-reliance on <div>)</p> <p>2 marks</p>	<p>Good range of different elements used appropriately.</p> <p>4 marks</p>	<p>Extensive, appropriate use of different elements, for media as well as text structuring. The site code is cleaner as a result.</p> <p>5 marks</p>
HTML 3 Rich commenting of HTML	<p>No comments, or comments are very sparse, unhelpful or just cancel code</p> <p>0 marks</p>	<p>Some comments are present, but they document HTML not the site (e.g. <!-- h1 here is a title -->)</p> <p>1 marks</p>	<p>Evidence of good commenting practice, but not enough for a newcomer to the code to orient themselves.</p> <p>3 marks</p>	<p>Number and quality of comments that a competent newcomer can easily understand the page structures and navigate around the code.</p> <p>5 marks</p>
CSS. Making an attractive, responsive website				25 marks
CSS 1 Use of external stylesheets	<p>No styling or only inline styles</p> <p>0 marks</p>	<p>Internal styling used exclusively, or internal and external are mixed, or no user-created external sheets are shared between pages (e.g. aboutus.css)</p> <p>2 marks</p>	<p>Only external stylesheets used for styling, with site wide rules</p> <p>4 marks</p>	<p>Styling is with external stylesheets only, with excellent choice of selectors to minimize duplication.</p> <p>5 marks</p>
CSS 2 CSS is used to make an appropriate, aesthetic design	<p>No CSS or CSS clearly entirely generic (this includes uncustomised Bootstrap templates)</p> <p>0 marks</p>	<p>CSS is used and styles some of the content. Some content still uses browser defaults</p> <p>2 marks</p>	<p>CSS is used throughout to style the web site's appearance. It works well.</p> <p>3 marks</p>	<p>CSS is used to style the site's appearance. It looks good and is appropriate to the audience and subject matter.</p> <p>5 marks</p>

CSS 3 Layout is appropriate and interesting	<p>No layout CSS or layout poor</p> <p>0 marks</p>	<p>Layout is fine, but fails to show advanced CSS and make good use of screen space</p> <p>3 mark</p>	<p>Layout is excellent, and matches the subject and audience</p> <p>5 marks</p>	
CSS 4 Website is responsive, with explicit responsive behaviour	<p>No responsive behaviour, or layout is poor despite responsive code</p> <p>0 marks</p>	<p>Explicit responsive code, but flawed execution. Alternatively responsive behaviour is not explicit, but works (e.g. simple site layout flowing normally)</p> <p>2 marks</p>	<p>Responsive code is explicit and successful.</p> <p>5 marks</p>	
CSS 5 Rich commenting of CSS	<p>No comments, or comments are very sparse, unhelpful or just cancel code</p> <p>0 marks</p>	<p>Some comments are present, but not helpful</p> <p>1 marks</p>	<p>Evidence of good commenting practice, but not enough for a newcomer to the code to orient themselves.</p> <p>3 marks</p>	<p>Number and quality of comments that a competent newcomer can easily understand the page structures and navigate around the code.</p> <p>5 marks</p>
JS. An interactive web site				20 marks
JS 1 JavaScript is successfully called and student-written code interacts with the DOM	<p>JavaScript is not present or not successfully called</p> <p>0 marks</p>	<p>JavaScript is called successfully</p> <p>2 marks</p>	<p>JavaScript is called successfully and student-written, non-library code reads from and writes to the DOM</p> <p>5 marks</p>	
JS 2 JavaScript has an essential role in the function of some aspect of the website	<p>No JavaScript, or JavaScript is irrelevant to the site</p> <p>0 marks</p>	<p>JavaScript is a part of the site (but primarily decorative)</p> <p>3 marks</p>	<p>JavaScript is designed into the site – it helps realise the design goals, and the web pages would be poorer without it</p> <p>5 marks</p>	

JS 3 Advanced use is made of JavaScript; or a JS library is used in a sophisticated way	No 'advanced' JavaScript 0 marks	JS library is used in a limited way (e.g. code is as in library readme/tutorial); or non-library code is not that advanced; or advanced use is buggy 3 marks	Advanced JavaScript is used successfully and effectively. 5 marks	
JS 4 Rich commenting of JS	No comments, or comments are very sparse, unhelpful or just cancel code 0 marks	Some comments are present, but not helpful 2 marks	Evidence of good commenting practice, but not enough for a newcomer to the code to orient themselves. 3 marks	Number and quality of comments that a competent newcomer can easily understand the page structures and navigate around the code. 5 marks
REPORT. Describing and reflecting on the design and building process				20 marks
Report 1 Wireframes and mockups are comprehensive and representative. Mockups (and, where relevant, wireframes) reflect responsive design	No diagrams, diagrams are not readable or of limited value. Mockups may have been generated after the website was built. 0 marks	Diagrams are clear enough but wireframes lack structure or would be difficult to translate to HTML, or match with final outcome is poor. 2 marks	Clear diagrams, but flawed or missing key elements; or diagrams good, but separate from the report 3 marks	Excellent diagrams. Where responsive elements change design, diagrams show this. 5 marks
Report 2 Accessible design	Not mentioned, or 'accessible' misinterpreted. 0 marks	Accessibility addressed, but generic. No direct connection to specific site. 2 marks	At least 3 clear elements of accessible design mentioned, with direct relevance to site. 5 marks	

Report 3 Design and planning is good (Mostly Intro, Inspiration, Usability and Learning sections)	No report, report not in HTML format, or poor or irrelevant content. 0 marks	Content is ok, but quite generic. Design shows consideration of briefing. 2 marks	Evidence of research and analytical thought. 3 marks	Consistently high quality report. 5 marks
Report 4 Reflection on work shows critical awareness	No report, report not in HTML format, or no reflection. 0 marks	Reflection is limited. 2 marks	Evidence of critical, reflective thought. 3 marks	Excellent reflection. 5 marks