CITS5505 Project 1

Research Website: Code on Demand

Due 5pm April 14, 2022. Worth 20% of your final grade.

The first assessment for CITS5505 is to do some basic research on the history of the web, and particularly *code on demand* and present your research in a simple website demonstrating the use of HTML5, CSS3, and JavaScript. Bootstrap and JQuery may be used, but customised CSS is required to give your site a distinctive feel.

Code on demand is one of the fundamental concepts in the development of the world wide web, and refers to the idea that a server can supply code in response to a client's request, and the client (or browser) will the execute that code. It was initially realised using Java applets (now deprecated), JavaScript, Adobe's FlashPlayer and ActionScript, and more recently is implemented using WebAssembly. Of all the fundamental concepts of the web *code on demand* has been the most controversial, and the hardest to implement, largely due to security concerns.

Your website should describe the concept and history of code on demand in the world wide web, and where possible should provide examples to demonstrate these technologies.

Your website should consist of three pages or sections:

1. One section should describe the concept of Code on Demand and provide local examples, along with some analysis of pros and cons. It should be about 1000 words of content, but interactive examples, including AJAX, and pictures and encouraged.

2. One section should describe the history of code on demand, and particularly the relevant web technologies. Again, creative use of styles, interaction and reactive presentations are encouraged.

4. The Final section should give a brief biography of the author, including a picture. It should be presented as a curriculum vitae, and is expected to use advanced HTML5, CSS3 and JavaScript to promote yourself. It will not be fact-checked, so the more private among you are welcome to embellish, or change, the truth.

The submission should consist of a folder with HTML files, CSS style files and JavaScript files, along with any other necessary resources (use relative links so anchor tags work on the assessors computer, and try to avoid large media files). The page should be tested in Chrome, Firefox and Edge or Safari browsers, and should pass HTML5 validation.

All code (HTML, CSS and JavaScript) should be commented and formatted in a clear and consistent manner.

The folder should be zipped (using zip, so the submitted file ends in .zip), and submitted to cssubmit: https://secure.csse.uwa.edu.au/run/cssubmit

CITS5505 Project Marking Sheet

Name:_____ **Student#:**_____

Criteria	Excellent	Good	Satisfactory	Inadequate	Comments	Weight
Content of Code on Demand page	Comprehensive set of examples, clearly illustrating usage and effect, with interactive components, and excellent technical descriptions.	Good set of examples, clearly demonstrating usage and effect, and good technical descriptions.	Covers the main technologies and gives a basic description of usage and effect of JS and other Code on Demand technologies	Omits certain technologies, or incomplete functionality.		/20
Content of History page	Comprehensive history, good coverage of elements, and detailed technical description	Good historical overview, a variety of elements and some technical description.	Basic history of Code on Demand, and a few elements, but lacking technical detail	Lacks meaningful history, uses few elements, and no technical description.		/20
Content of Biography	Clear, well formatted, and informative with effective use of HTML and CSS, in a professional and individually styled page with multimedia elements.	Clear, well formatted and informative with effective use of HTML and CSS, with some multimedia elements.	Basic details, with no formatting errors or written errors. Some style applied.	Contains errors, or has incomplete or inconsistent formatting. No attempt to apply style.		/10
HTML code quality	Passes validation perfectly, wide selection of elements and correct use of attributes	Some minor validation errors, good selection of elements, and some use of attributes	Validation errors, but correctly rendered. Some variety of elements, but basic use only.	Does not render correctly, limited use of elements and attributes.		/15
CSS code quality	Clear well crafted and distinctive style. Well commented code, demonstrating a wide variety of styles, and selectors	Distinctive style, and reasonable code demonstrating some variety of style and selectors.	Generic style, code formatting inconsistent, or lacking selectors and styles.	Poor style, with errors in attributes and selectors.		/15
JavaScript code quality	Well written efficient and error free code, demonstrating DOM maipulation and AJAX with callbacks.	Correct well formatted code demonstrating DOM manipulation and some use of AJAX.	Some errors in code, inconsistent DOM manipulation, and missing AJAX requests.	Errors in code, or ineffective functionality. Poor formatting, and not attempting AJAX or DOM manipulation.		/20
Overall						/100