CITS5505 Project 1

Research Website: *The Humble Hyperlink*

Due 5pm April 17, 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 *the humble hyperlink* 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.

Hyperlinks are a core feature of the original HTML specification and have powered some of the web's great innovations, including Wikipedia and Google's page rank algorithm. Although hyperlinks predate the web, *hypermedia as the engine of application state* was implicit in the original conception of the world wide web and HTML's `href` attribute inside the anchor tag enabled for people to interact with information. Recent innovations, such as single page applications, mobile applications and social media are changing the way we use hyperlinks, perhaps undermining hyperlinks and the user autonomy they enable.

Students should research the history of HTML and hyperlinks in the context of the web, identifying key innovations and applications, a basic overview of the architecture of HTTP requests, including the related technologies.

Your website should consist of three pages or sections:

1. One section should describe the concept of Hyperlinks and provide local examples, describing how they are implemented in the context of both the web-developers and browsers (i.e. as anchor tags *and* HTTP requests). 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 hyperlinks, identifying the key technologies and applications and the evolving use of hyperlinks in both presentation and organisation of material. Again, creative use of styles, interaction, media 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, and introduce yourself to the teaching team.

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. All sources, including AI assistance, should be referenced (with hyperlinks, obviously).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 Hyperlinks technical description page	Comprehensive set of examples, illustrating usage and architecture, 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 Hyperlinks in HTML or HTTP.	Omits certain technologies, or incomplete functionality.		/20
Content of Hyperlinks 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 Hyperlinks, and a few elements, but lacking technical detail	Lacks meaningful history, uses few elements, and no technical description.		/20
Content of Biography	Well formatted, and informative with effective use of HTML and CSS, in an individually styled page with multi-media elements.	Clear, well formatted and informative with effective use of HTML and CSS, with some multi-media 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. Neat, 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 manipulation, some AJAX.	Correct well formatted code demonstrating DOM manipulation.	Some errors in code, inconsistent or missing DOM manipulation.	Errors in code, or ineffective functionality. Poor formatting, and not attempting AJAX or DOM manipulation.		/10
Sources and References	Well chosen and relevant resources, clearly attributed, and complete description of how AI assistance was used.	Useful resources, clearly attributed, and description of how AI assistance was used.	Some resources, attributed in a vague or general sense. Unsupported assertions, and no discussion of AI assistance.	Missing references, unsupported assertions.		/10
Overall						/100