

## **AIT 616**

### **Final Project**

**Purpose:** Creating a complete client-side web standards compliant website does not occur in a day or week. This semester, the course has progressed from HTML5 root elements to understanding CSS, attributes, graphics, layout and presentation to modifying the CSS and HTML using JavaScript. The final project is a culmination of the previous projects and modules covered in the course. The final project is an opportunity to apply the knowledge gained in the course. The deliverable is a tangible example of an individual's Client-side (HTML5, CSS, and JavaScript) capabilities that can be showcased in current opportunities, future courses, and job interviews to support what you have learned.

The Final Project will be built on the previous projects and assignments, but a complete overhaul is optional if a student chooses to do so with their work. The final project should be a complete turn-key client-side website. Once uploaded to the student server, the site should be accessible to all major search engines (ex. Google, Yahoo, Bing). You will need to create additional web pages to meet the 12 page minimum. This is a minimum and full credit will only be given to web sites that are 12 pages. The final project will need to include an updated sitemap, a CSS for multiple devices and several features that will make your final project a showcase. All of the web pages will need to be Web Standards compliant and validate (double-check using the W3 Validator). The final project should offer a sense of pride, as you have created the site on your own utilizing all the skills you have learned up to this point.

#### **Objectives of the Project:**

- Combine all of the course material together into a complete website
- Apply the concepts of HTML as structure, CSS as presentation, and JavaScript as behavior
- Construct a W3C compliant web site
- Create accessible and usable web pages
- Expand projects to build a complete web site

#### **Procedures:**

1. Review the course text books
2. Gather the necessary information to meet the Final Project objectives (Consider the Google SEO document)
3. Wireframe (*Use the 960gs* templates) and build additional pages for the Final Project
4. Develop, test and review the previous and new webpages
5. Upload your completed website containing JavaScript to the server and submit a link through Blackboard.

**Overview:**

The Final Project will be built based on the previous project and assignments, but a complete overhaul is optional if a student chooses to do so with their work. The final project should be a complete turn-key website. Once uploaded to the server, the site should be accessible from major search engines. All links, pages, images and overall content should be accessible (no more page not found errors) You will need to create additional web pages to meet the 10 page minimum for grading and full credit will only be given to web sites that are 12 pages. The final project will need to include an updated sitemap, a CSS for multiple devices and several features that will make your final project a showcase. All of the web page will need to be Web Standards compliant and validated (double-check using the W3 Validator). The final project should offer a sense of pride, as you have created the site on your own utilizing all the skills you have learned in this course. Please upload a single hyperlink to your project via Blackboard. Final projects will not be accepted outside of Blackboard or as individual files – just submit a single hyperlink to your project.

Grading Rubric for the Final Project – (Total 100 points)

Objective/Criteria	Performance Indicators						
	None to very little to evidence of skills		Some to less than satisfactory evidence		Evidence is present with little additional support		Beyond Expectations
	0	4	8	10	12	16	20
<i>Covert JavaScript game from Project 4 from alerts/console use to HTML / CSS based on user actions. Popups should not be used</i>	Game not working or not present	Game not updated.	Game updated – but prompts and alerts still present	Game updated – but prompts or alerts still present	Game updated – no prompts or alerts used	Game updated – HTML or CSS used for user actions	Game updated – HTML or CSS used for user actions
	0	4	8	10	12	16	20
<i>Additional pages of content with wireframes (roughly 400 words per additional page)</i>	No Additional Pages	½ an additional web page	1 additional web page	2 additional web pages	3 additional web pages	4 additional web pages	5 additional web pages
	0	4	8	10	12	16	20
<i>Create a CSS for printing (<b>MUST BE NAMED print.css</b>)</i>	No CSS specifically for print OR no print.css exists	An additional CSS exists, just not specific to print	An additional CSS exists, just specific to print	An additional CSS exists specific to print but no unique code	An additional CSS exists specific to print but some unique code	An additional CSS exists specific to print but significant unique code	Print CSS is considerably different and better than the default CSS
	0	2	4	5	6	8	10
<i>Create a CSS specifically for mobile devices (<b>MUST BE NAMED mobile.css</b>) – must validate with the mobilephoneemulator</i>	No CSS specifically for handhelds or page does not validate	An additional CSS exists, just not specific to handhelds	An additional CSS exists, just specific to handhelds	An additional CSS exists specific to handhelds but no	An additional CSS exists specific to handhelds but some	An additional CSS exists specific to handhelds but significant unique code	Handheld CSS is considerably different and better than the default CSS

<i>and google's mobile friendly site <a href="https://www.google.com/webmasters/tools/mobile-friendly/">https://www.google.com/webmasters/tools/mobile-friendly/</a></i>	with the mobile-friendly website or no mobile.css exists			unique code	unique code		
	0	2	4	5	6	8	10
<i>Content, presentation, and behavior are high quality and support the project topic</i>	At least one page is not available	Pages are neither usable or accessible	Pages are usable or accessible or not high quality	Pages are usable and somewhat accessible and of poor quality	Pages re usable and decently accessible and acceptable quality	Pages are usable and properly accessible and of satisfactory quality	Pages are usable and properly accessible and of excellent quality

Objective/Criteria	Performance Indicators						
	None to very little to evidence of skills		Some to less than satisfactory evidence		Evidence is present with little additional support		Beyond Expectations
	0	2	4	5	6	8	10
<i>An additional page outlining the future direction for the website – understanding that the page will last forever on the Internet</i>	Text is irrelevant or missing	Text outlines the scope of action (What) and is at least 50 words	Text outlines the timeline of action (When) and is at least 100 words	Text outlines the who will utilize the site and if any updates will be made and is at least 150 words	Text outlines the how the site will be updated the site and is at least 200 words	Text outlines the semesters work and opportunities for new development and is at least 250 words	Text outlines the semesters work and opportunities for new development and is at least 250 words
	0	2	4	5	6	8	10
<i>All pages validate with zero errors – some warnings are expected such as those generated from YouTube videos and meta tags</i>	Pages do not validate with severe errors	Pages do not validate with major errors	Pages do not validate with minor errors	Pages do not validate due to one type	Pages validate through W3C	Pages validate with appropriate meta tags	All pages validate with required html tags