

# COMP 2511 - Web I: Client Development

## Assignment #1: HTML& CSS

 **Group Assignment**  
 **(max. 3 people)**

# COMP 2511 Assignment #1: HTML & CSS

## ***Outcome***

The intent of this assignment is to build towards a mastery of using HTML and CSS. Skills learned in this assignment are subject to examination. Upon successful completion of this assignment the student will:

- Understand the syntax of HTML markup.
- Be able to describe and apply semantic tags to create structural meaning.
- Be able to build a consistent navigation structure over multiple pages.
- Be able to understand and use appropriate HTML attributes and tags.
- Use absolute and relative links correctly.
- Include at least one image in the webpage and addressing its accessibility appropriately.
- Use CSS selectors.
- Apply CSS stylesheets to achieve consistent appearance of the elements as directed.

## ***Submission***

You must also submit all your files in BlackBoard and provide information about your team, also briefly describe what and how much each person contributed to the project.

## ***Grading***

Your assignment will be graded based on the overall quality of the pages, consistency between pages, as well as completion of the requirements on a per page basis.

## ***Team work***

- Before starting the project, read the requirements and meet with your project partners to divide tasks equally. List all tasks and assign them each to one member of the team in a planning document.
- Both members of a team must be knowledgeable about the whole project. Your instructor may ask questions from each member of a team or request each member to modify any of the pages in your site. Make sure to review the pages that are developed by your teammate.
- Students will be asked demo their project to the course instructor.

## ***Content Requirements***

In this assignment, you will be developing a Website with one of the following **themes**:

- 1) Introducing film/book you have watched/read
- 2) Teaching Web programming to younger kids
- 3) A business you wish to start in future

The content you choose to present is optional and you can prepare the content of your choice to present.

If you are working with a partner, select a topic that both of you can relate to. The content of your website should be developed by you or synthesized from multiple sources. You should NOT simply copy-paste content from existing webpages on the Internet. In assignment 1, you are requested to create the content of your Website, using HTML and style it through the application of CSS stylesheets. In the next assignment, you will improve the layout and responsiveness of your Website.

To get some ideas, you can check the Website with similar focus to yours to see what type of content they have in their Websites. What you think is missing from their website may also be useful to give you an ideas of what you want to add to your Website.

### ***Structural Requirements***

1. You should submit valid <https://validator.w3.org/> and semantically appropriate HTML5 code (use of semantic tags like header/nav/etc.). It is recommended but not mandatory.
2. You must create at least 3 pages that will define your Website. The pages must be named properly in their filenames and page titles.
3. Each of your pages must be consistent with one another. There should be:
  - a. a consistent look and feel between pages
  - b. navigation menu with links from/to all 3 other pages
4. Your Website must include:
  - A logo for your team (this doesn't have to be professional and avoid using copyrighted content found on the Internet)
  - Appropriate content on every page.
  - Appropriate META tags must be provided for each page.
  - Ensure a unique and descriptive <title> tag for each page.
5. Use the following elements in your Website:
  - a. At least, one photo enclosed in a <figure> with a <figurecaption> (not the logo). All images must be stored in a local directory called images. You must define "alt" attributes for all pictures for accessibility. (Note that you may leave the value of alt attribute empty for decorative images.)
  - b. One External link to another Website that opens in a new tab
  - c. At least one link to another place on the same page.
  - d. A table with a merged (spanned) cell.
6. Semantic markup:
  - a. Use <nav> tag and define a consistent "menu" on each page.
  - b. Use <article>, <header>, <main>, and <footer> tags to properly define the structure of your pages.
7. A form design for contacting you that has:
  - a. A mandatory input box for the subject. Include a max length for user input.
  - b. A mandatory textarea for entering the body of the inquiry.
  - c. A mandatory input box to get user's email address. Include a place holder to show the valid format [must] and a pattern to validate the input [recommended].

- d. An optional box to get user's telephone number. Must include a place holder to show the valid format and a pattern to validate the input.
  - e. Radio buttons with at least 2 different options.
  - f. Checkboxes with at least 2 different options to select.
  - g. A reset button that clears all form inputs
  - h. An input element that accepts date input.
  - i. A submit button that submits the form to an email address.
8. Valid **HTML5 markup**. Your site should validate without error (warnings are ok) [Recommended]
9. Submit your own raw HTML code – evidence of automatically generated HTML code will result in a 0.
10. Do not add any internal/embedded CSS, JavaScript, or other advanced components to the site.

### ***CSS Requirements***

1. Navigation menu: In every page, the menu item of the current page must be styled differently. (e.g. special color to indicate the user is at this menu item's page)
2. Use the first-letter **pseudo element selector** to style a first letter of (at least) one of your paragraphs differently.
3. Use a **pseudo class selector** of your choice in one of your pages.
4. Use a **contextual selector** of your choice in one of your pages.
5. Use an **attribute selector** of your choice in one of your pages.
6. Style your table using CSS properties to have **striped table format** (i.e., style even and odd rows with different colors. You should **not** use inline styling for this!
7. Float an image to the right side of a paragraph of your choice in your Website.
8. Uses consistent design for the header and footer area in all pages. The whole website should have a professional look and design.
9. Use **external CSS files** to style your Website. Include all your CSS files inside a folder called "style" and include them in the <head> section of your HTML files.
10. All pages must use consistent font, margin, padding. These must be defined using a general CSS file shared by all pages. Page-specific styles should be defined in separate CSS files. Note that you can include multiple CSS files for your HTML files.

**Note:** If a specific requirement is not given for a part of your Website, you are welcome to use CSS properties to create a design of your choice.

	Point	Grade
<b>General</b>		
<ul style="list-style-type: none"> <li>• Pages are consistently styled using external CSS files with proper names.</li> </ul>	3	
<b>Content of the Website</b>		
<ul style="list-style-type: none"> <li>• Includes the 3 pages as described earlier with appropriate content</li> <li>• Includes company logo</li> <li>• All images must be stored in a directory called images</li> <li>• Appropriate choices of semantic tags (header/nav/etc.)</li> </ul>	5	
<b>Menu items</b>		
<ul style="list-style-type: none"> <li>• Menu items must be linked to their related pages</li> </ul>	5	
<b>Images</b>		
<ul style="list-style-type: none"> <li>• Include at least one semantically tagged image with a caption.</li> <li>• You must define “alt” attributes for all pictures for accessibility.</li> <li>• An image is floated to the right side of a paragraph (this can be in any page).</li> <li>• Images are in their own relative directory as specified.</li> </ul>	5	
<b>Navigation</b>		
<ul style="list-style-type: none"> <li>• One External link to another Website that opens in a new tab</li> <li>• At least one link to another place on the same page.</li> </ul>	5	
<b>Table</b>		
<ul style="list-style-type: none"> <li>• Table-related HTML elements (table, tr, td, th) are used properly</li> <li>• A table with a merged cell</li> <li>• Striped table format is created using CSS properties.</li> </ul>	5	
<b>Form design</b>		
<ul style="list-style-type: none"> <li>• Has all requested elements and requirements described earlier.</li> <li>• Mandatory fields are visually distinguishable from non-mandatory fields.</li> </ul>	8	
<b>CSS selectors</b>		
<ul style="list-style-type: none"> <li>• Pseudo class selector is used.</li> <li>• Pseudo element selector is used.</li> <li>• Contextual selector is used.</li> <li>• Attribute selector is used.</li> </ul>	2 2 2 2	
<b>Design quality</b>		
<ul style="list-style-type: none"> <li>▪ All pages have consistent and professional look and content.</li> <li>▪ Relevant head tag elements used properly (meta/title/link).</li> <li>▪ Proper use and storage location of shared/page specific CSS files.</li> </ul>	6	
<b>TOTAL</b>	<b>50</b>	

**Peer Review:**

Every one of you will also submit a peer review about yourself and your team members. You can submit that in a simple word documents.

You will rate your participation and also every group member participation in the project based on following four factors:

1. Active Participant
  - a. Completed all the required tasks.
2. Sufficient Participant
  - a. Completed almost 80% of the tasks assigned
3. Less Participant
  - a. Completed almost 50% of the tasks assigned
4. No participation
  - a. Did not contribute at all in the project

Based on the peer review, I will adjust individual marks in the projects.