**Assignment 1 – HTML & CSS**

You will be working on building a website using HTML and CSS.

**Website Subject**

Pick a subject out of this list. I am open to other ideas about the website. If you are working in a group on the final week presentation, you can work on assignment 1 and assignment 2 in a group. In the submission, everyone has to submit a file indicating each group member’s detailed working load in the group (what did the member do? How much did this member do?).

* Your personal website
* Your favorite club website
* Your school progress tracing website
* A fictitious web that sells products

All web pages must have content (text, image, or video).

**Required Components**

* You need to have three pages per person. Make sure each person knows who is responsible for which page.
  + Page names: All pages should end in **.html**.
  + Page names should be all lower case.
  + Page names should not have spaces. You can use underscores instead.
    - Two Required pages
      * Main index page. The file name must be **index.html**
      * About page. This might have things like who created the website, or info about your band, or your city, or company.
    - Optional pages. Must have at least four.
      * News page
      * Items for sale page
      * Hours, directions
      * Page with video. Videos should be original. Please don’t use other people’s videos. You can post on YouTube, Vimeo, etc. and link the video in.
      * Pages with info on a subject
* Every page should have:
  + An HTML comment at the top with who is primarily responsible for the page. Each person should have at least three pages they are responsible for, and will be graded on.
  + A doctype stating this is HTML 5.

<!DOCTYPE html>

* + An **<html>** tag around the entire document.
  + A **<head>** section with title and charset.
  + A **<body>** tag after the head that contains the main body of the document.
  + A **<header>** tag with:
    - Unordered list of all pages in the web site, that link to the web pages. The link will be the page name. For example: **<a href="about.html">About</a>** Links must be relative.
    - The menu should appear on every page. The menu will be the same for every page, so once you have it, you can copy/paste it across.
    - Web site title and graphic. Put in its own **<header>** tag.
  + Web site footer. Put in its own **<footer>** tag. Anything that goes at the bottom of the page. For example, the footer might have copyright information or contact information. The footer should look something like this:
  + <**footer**>
  + Copyright 2021 by Pat
  + </**footer**>
* Once you have this done on one page, you can save it. and use it as a template for the other pages.
* Additional required elements, required at least once for each person on the assignment:
  + Tags must be lower case
  + Headings. Those **<h1>** to **<h6>** tags. Put a heading before things that make sense to have a heading.
  + Paragraphs
  + Linked in images. Sketch something in MS Paint, or Inkscape. Or take your own photo. It doesn’t have to look good.
  + At least one table. You don’t need a table in all the pages, but you need a table on at least one page you are responsible for.
  + HTML entities. Toss at least a few on your pages. [HTML Entities (w3schools.com)](https://www.w3schools.com/html/html_entities.asp#:~:text=HTML%20Entities%201%20HTML%20Entities.%20Some%20characters%20are,is%20a%20%22glyph%22%20added%20to%20a%20letter.%20)
  + At least 150 words per page.

CSS:

* CSS
  + - Select a color scheme for your website.
      * Perhaps search through Adobe’s [Kuler](https://color.adobe.com/explore/most-popular/?time=all).
      * Use these colors when selecting colors for borders and such in the next items.
    - Go to your index.html file and apply one or more in-line styles.
    - Apply one or more styles in the **<head>**
    - Apply a stylesheet that you’ve created to every page.
      * Only create one css file, but put a link that one css file in every html page.
      * Create styles with a tag selector.
      * Create styles with an id selector.
      * Create styles with a class selector.
    - Style the menu
    - See the step-by-step tutorial at [W3Schools CSS Navigation Bar tutorial](https://www.w3schools.com/css/css_navbar.asp).
    - The W3Schools menu tutorials style tags like **<li>** which can mean your bullet lists also pick up menu styles. Add a **nav** in front to only apply it to the navigation bar. For example:

**li** {

**float**: **left**;

}

Should become:

**nav** **li** {

**float**: **left**;

}

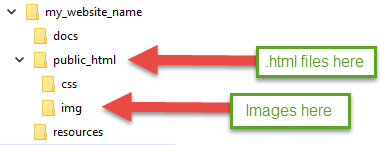
* + - Find the table in the website and style it.
    - Spend some time doing detail work. Make it look good.

Finally:

* Validate your files! Use HTML Validator or the [W3C Online Validator](https://validator.w3.org/#validate_by_input). Easy way to catch mistakes.
* Check for spelling and grammar.
* Rewrite the website using ASP.NET.

**Directory Structure**

For this assignment, create directories and set up your folders like this:

[](https://web-development-class.readthedocs.io/en/latest/_images/directory_structure.png)

**Turn in Assignment 1**

* Make sure you submit your files, and your files only.
* Make sure you submit any images that go with your files.
* Make sure your files have a comment with your name in them at the top.
* Submit on Canvas.
* Here’s the rubric it will be graded on. Review.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Overview | | | | |
| Is the HTML/CSS valid for the project | **Many issues** 0 points | **>= 6 issues** 1 points | **>= 3 issues** 2 points | **< 3 issues** 3 points |
| Are file names lower case, with no spaces | Many issues **0 points** | Some issues **1 points** | Yes  **2 points** |  |
| HTML | | | | |
| Working menu on all pages | No  **0 points** | Major issues **2 points** | Minor issues **4 points** | Yes **5 points** |
| Website has a valid ‘header’ section | No  **0 points** | Major issues **2 points** | Minor issues **4 points** | Yes **5 points** |
| Website has a valid ‘footer’ section | No  **0 points** | Major issues **2 points** | Minor issues **4 points** | Yes **5 points** |
| Has table | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Has linked image | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Has an HTML entity | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Has an index.html page | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Has an about.html page | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Page 1 | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Page 2 | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Page 3 | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| CSS | | | | |
| Inline style in index.html | No  **0 points** | Major issues **2 points** | Minor issues **4 points** | Yes **5 points** |
| Linked style sheet | No  **0 points** | Major issues **2 points** | Minor issues **4 points** | Yes **5 points** |
| Tag selector | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Id selector | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Class selector | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Menu | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Table | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Borders | No  **0 points** | Major issues **1 points** | Minor issues **2 points** | Yes **3 points** |
| Detailed style | **Minimum** 0 points | **OK 1** points | **Good 2** points | **Great 3** points |
| ASP.NET | | | | |
| Rewrite the website by ASP.NET | No  **0 points** | Major issues **15 points** | Minor issues **20 points** | Yes **25 points** |