# *Web Programming I (420-H10-HR)*

# *Assignment 1 – Web Site Creation*

Date assigned Monday, September 23, 2024

Date due: **Friday, October 11, 2024**

**Learning Objectives**

Upon successful completion of this assignment, the student will be able to:

* Develop a design plan for a website
* Select a colour scheme for a website
* Design the home page for a website
* Set up the navigation and template for a website
* Create an external style sheet for a website

Introduction

1. Your job is to determine a website you would like to develop based on the criteria listed below. The site needs to sell some service or product. The type of business is up to you but I must approve it. Some ideas for sites:

* A website for a coffee house, restaurant, etc.
* A website for a resort or camp
* A website for a yoga studio or similar
* A website for a veterinarian
* A website about a hobby
* A sales website (cars, bikes, sports equipment, books, etc.)
* A website about a sports team (selling merch or tickets)
* A website about a musical/theatre group
* A website for a service industry like a doctor’s or lawyer’s office

1. When coming up with your idea you must determine what kinds of pages your site will have. **You MUST have between 4 and 9 pages besides the home page**. At the end of the semester, your website will include the following pages and features:
2. A home page describing the site
3. A list of products/offerings/services and the costs
4. Hours of operation for the business or service
5. A page that contains links to related websites
6. An inquiry and/or contact us page containing a form that the visitor can fill in
7. A page containing photos of your staff (these will be pictures of your classmates taken in a later lab)
8. A video which you will complete in a later lab
9. Other pages you deem necessary for your site
10. The website must have at least one of each of the following by the final assignment (many of these you do not know at this point but will by the end of the term).
11. A header area, navigation area, content area, and footer area
12. A table to show information
13. Images
14. Links
15. A form to allow information to be entered
16. Photos (taken by you of your classmates in a later lab)
17. Video (taken by you and featuring your classmates)
18. A responsive design that adjusts to being viewed on a phone or tablet

To do

1. Create a folder named YourInitialYourLastName\_H10A01 in the Assignments folder for this course on your OneDrive (like mcleroux\_H10A01).
2. Come up with the idea for your site. It cannot be a real company. Create a professional and formal document. Use headers for each section with relevant titles, the sections should include the following:
3. The document should have a title page with the title of the document (Design Plan for xxxxxxx x xxx xx x x xx Web Site), your name, and the date. The title page is its own page.
4. A name for the company and a description of what they do.
5. A section (paragraph) that describes what the website is for.
6. A list of pages the website will have with a brief description of each. The required pages are listed above. In total, you should have *at least* 5 pages.
7. The intended or targeted audience for the site…who will want to look at this site, their age range, technical ability, etc. Explain why this is your target audience and a few characteristics of your target audience.
8. Design or find an appropriate **non-copyrighted** image that can be a logo for the company and include it in the document. If you use an image from the internet, please include the link, it must be non-copyrighted. If you use a logo generator, specify the logo generator used.
9. Determine a starting colour palette of at least 5 colours appropriate for the company and the intended audience. These are the colours you will use on your website. Include the colours in the document such that I can see the colours. A good way to do this is to include a colour swatch. Describe what you will use these colours for on your website.
10. The banner (more details below).
11. Your mobile mock-up (more details below).
12. Desktop mock-up.

**Notes for the document:**

* The document is the largest part of this assignment and what you should spend most of your time on.
* This is meant to be a professional document, write it in the third person, using complete sentences and paragraphs. Each section should have an appropriate heading. Check your spelling and grammar.
* Follow the standard for using abbreviations (the first time you use one, have it expanded).
* Be sure to include all required sections, including those noted in later sections of this document.

1. Create the banner of the website. This can be text, a graphic, or a combination. You must use your colour palette for the colours. Determine what CSS properties you will use for the banner. Remember a banner would at least include the company name and the logo. You can use background images to create the banner. Include the banner in the document.
2. Create a rough sketch of the layout of your home page for **mobile screens**. This can be done freehand and scanned or you can use a tool to create mock-ups. It can be high or low fidelity. This image MUST be copied into the document. The image should include:
3. Where your banner fits in.
4. Navigation indicating what pages you are going to include.
5. Something showing relative font and button size, you can do this by including some filler text (for example, the header should be bigger than the body text).
6. A bottom navigation.
7. Something showing the content pages that will be included. You can include all your pages or a subset of your pages.
8. Create a second mock-up for the desktop site. The desktop site must look different than the mobile site but should have the same feel and use the same colour scheme. The desktop site will contain all the pages for your site while the mobile site may not. Include the desktop sketches in your document.
9. A banner that contains the logo, and company name.
10. A navigation bar (left, top, or right – the design is yours), including links to the pages (which will be developed later).
11. Bottom text navigation to all the pages.
12. Something showing relative font and button size, you can do this by including some filler text.
13. If you plan on using a background image or other images, describe it or “rough it in”.
14. Set up the site using VS Code. All the pages MUST be validated (instructions below).
15. Create a folder structure for the site as follows (note you will be adding others):

* **styles** folder to hold the style sheet(s)
* **images** folder to hold the images for the website
* **media** folder to hold any multimedia for the site (such as videos)

Note: All HTML files will go in the root of the folder

1. In the styles folder, create a new external style sheet named site.css. The style sheet will contain all styles for your site including all IDs, classes, and tags. Each page will use the same style sheet. For now, you must include at least 5 styles (but may have more). The styles must be based on the look and feel (colour scheme, navigation, etc.) you design. This is not a complete list. You will need to add CSS as you learn more and as we continue working on the site. Do **not** have any embedded or inline styles on the page. Some tags you might want to consider including styles for are:

* html (to reset different things)
* body (including any background images, etc.),
* Header tags (h1, h2, etc.),
* Separate classes/ids for each div that is identified (header, nav, footer, body),
* Font-family, style, size for various areas on your site,
* text navigation at the bottom, in smaller font.

Include any additional styles you think you need. Validate your CSS and correct any errors.

1. Set up the home page. Name the page index.html and attach the stylesheet site.css created in the previous step. No content is required other than the banner (including the logo – will learn in week 6 how to add images to pages) and navigation as designed above. If you wish you can include some lorem ipsum text (<http://www.lipsum.com/>). If you do, remember to keep it about the same length as you would have information on the home page. Validate your HTML and correct any errors.

**Notes**:

1. Confirm that your website idea is okay with me before starting. If the idea is inappropriate, then you will waste a lot of time.
2. You will be working on the website for each assignment in this course.
3. Do NOT set up any other pages except the home page. This is a requirement.
4. The document should only be 3-5 pages long including the images.
5. These design elements are not cast in stone and may change slightly, but they should not just be thrown together to satisfy the assignment. Wholesale changes will ONLY be permitted in extreme cases.
6. **This will be a static website!** Users will not be able to log in, log out, use search bars, or leave comments. You will only be using HTML and CSS for this website, consider what is and is not possible.
7. The best place to start is to check similar types of businesses to see what they include on their sites (it would be my first move).
8. You have all the tools you need for this assignment from class, avoid using things you don’t understand!
9. You may use AI-generated images for your logo or images of your product, but you must say it was generated and source the tool you used. When creating your website you will also have to source the AI-generated images in the footer of your website.
10. **Do not** use AI for anything else! This includes not using it for stock photos, photos of people, text, etc.

**To submit**

Zip the folder YourInitialYourLastName\_H10A01 (example: mcleroux\_H10A01) and copy it to the Moodle page for the course. The zip file contains:

* The first design document for the site.
* All the files on the website