CSD 1103 Front-End Web Development I
Term Project

Overview

- Term project must consist of your own work completed during this term.
- The website must be running on the GitHub cloud server.
- The requirements below are an outline of the minimum requirements. Do not feel obligated to follow exactly the page layouts and content. Be creative.
- The website must consist of HTML, CSS, and JavaScript covered in the course material. Any software or technologies used in the term project that are not discussed in class results in a 50% reduction in your mark.

Accessing Your Website

Use the following link to access your website:

Sarnia – https://LCSTY99.github.io/

Ottawa – https://LCOTY99.github.io/

Where:

LCS is Sarnia; **LCO** is Ottawa.

TY is the term/year; for example, F24.

99 is your assigned number.

Week 2

Create GitHub Account

- Create a GitHub account for your website according to instructions

Week 3

Create Website Structure

1. Create the folder structure for your website
2. Upload a temporary index.html page

Week 5

Chapters 2 & 3 — Building a Webpage & Enhancing a Website with Links and Images

INDEX.HTML (Home Page)

1. Create the index.html webpage. *Try not to have a scroll bar on the index.html page.* Instead, make the index.html a landing page from which visitors can navigate. The index.html webpage will change as the website is developed. Include the following:
   - *DOCTYPE* to identify the page as an HTML5 document
   - *Comments* that include your name and student number
   - *html* tag with language attribute

- *head* tag that includes *title* tag with company name and *meta* tag with character set
- *body* tag that includes HTML5 semantic elements

2. *header* element:
   - Add company banner image
     - Include the alt attribute
     - Set the height and width

3. *nav* element
   - A logo in the top left corner that links back to the home page
   - Create a navigation bar (every page) with links as follows:

Home	→	*index.html*
About	→	*about.html*
Our Team	→	*team.html*
Specials	→	*specials.html*
Training	→	training.html
Media	→	*media.html*
FAQs	→	*faqs.html*
Contact Us	→	*contact.html*

   - Example of navigation link:

     `<a href="index.html">Home</a>    `

4. *main* element:
   - Maybe a welcome message:
     - "Welcome to …" Welcome customers, maybe include a friendly image
     - Be creative

5. f*ooter* element (include on all pages):
   - Line 1: Include copyright symbol and the text "Copyright 2099. All Rights Reserved."
   - Line 2: Include text "Request information"
   - Line 3: Include your name and student number
   - Example:

     `© Copyright 2099. All Rights Reserved.<br> Request information<br>`

     `Your_name            your_student_number`

   - Add an email link to the "Request information" text. For example:

   `<a href="mailto:info@`**your_company_name**`.com">Request information</a>`

Week 6

Chapter 4 — Applying CSS Styles to Webpages

External Style Sheet

1. Create an external style sheet called ***styles.css*** for the website. Place this document in the **css** folder
2. In the *head* element of the *index.html* webpage, insert a link to the styles.css style sheet.
3. Set the background color for the website

4. Style the *container* element to set the width of the page and center the page
5. Style the *header* element to have a background color, top and bottom margins, rounded borders, shadow, and text align center
6. Style the *nav* element for text properties, padding, margins, and borders
7. Style the *main* element as a block display. Also, style text properties, margins, padding, rounded border, and shadow
8. Set the default fonts for the website (your choice)
9. Adjust the font sizes for all headings
10. Change the color of at least one heading
11. Format the list items
12. Reduce the font size for the footer, center it, and include a top margin
13. Include other appropriate styles. Experiment and be creative

Week 7

SPECIALS.html

1. Create the *specials.html* page that includes images
2. Pick one or two options from below. Be creative.
   - A banner that spans the width of the page that brands the website
   - "Product of the week." Describe the product of the week and include an image of a product
   - "Weekly sales." Describe the weekly sales items and include product images
   - A "catchy" paragraph that contains a customer guarantee. Highlight the last sentence in bold. Include an image that reflects the guarantee
   - List four (or more) reasons why customers should buy your product and/or from your company. Include images

Week 8 – Study Week (Great opportunity to enhance your website)

Week 9

Chapters 5 & 6 — Responsive Design Part 1 & Part 2

ABOUT.HTML

1. Create the *about.html* webpage using *index.html* as a template
2. Modify the ABOUT.HTML webpage so it is responsive to different viewports:
   - Include viewports for "mobile," "tablet," and "desktop"
   - Add a META "viewport" tag
   - Add a *div class* for each viewport
3. Be creative in your design of this page. Some suggestions include:
   - Heading About "your_company_name" with a paragraph or two describing your company
   - Heading "Our story" that describes the history of the company
   - Heading "Six (or more) Reasons Why You Should Shop with us." Include an ordered list-style
   - Heading "Our guarantee." Add a guarantee for customers. Boldface the last sentence of the guarantee

4. Create a new style sheet called *about.css* and store in the *css* folder:
   - Add media query and styles for each viewport
   - Use style pseudo-classes for the navigation links
5. Test the webpages in a mobile emulator
6. Optional – Modify entire website for responsive design. If you try this, back up the original documents first

Week 10

Chapter 7 — Improving Web Design with New Page Layouts

TEAM.HTML

1. Create the *team.html* webpage using *index.html* as a template
2. Change the team.html page to utilize the following HTML 5 semantic elements:
   - Article element
   - Aside element
   - Section element
   - Figure and figure caption elements
3. Include content using the required semantic elements. For example:
   - *Who We Are* or *Our Team* with a paragraph or two about who works at the company. Could include images of employees identified by position (Executives/Leadership Team, Marketing, Sales Representatives, and so on)
   - Heading "Our story" that describes the history of the company
4. Create a new style sheet called *team.css* for the *TEAM.HTML* webpage and store in the *css* folder

Week 11

Chapter 8 — Creating Tables

TRAINING.HTML

1. Using *index.html* as a template, create the *training.html* webpage
2. Create a **hard-coded HTML table** with the caption "Product Training Schedule"
   a. A schedule when the company conducts on-line product training sessions
   b. In addition to the table, provide other content (your choice)
3. Create an external style sheet called *training.css* and include the table styles in this style sheet. Add a link in *training.html* to the *training.css* style sheet
4. *Table* includes:
   a. At least 12 rows and 5 columns. Columns could include at least Product, Date, Price, Length, Room, Instructor
   b. A caption
   c. Apply a border style
   d. Apply collapse borders
   e. Style the caption and "th" elements
   f. Apply a cell padding style to the "th" and "td" elements
   g. Use a CSS class to apply alternating row colors
   h. Highlight table row on mouse over

i. Optional - include an image of each product in column one

j. Optional - Explore websites such as http://www.w3schools.com/css/css_table.asp and apply additional features

Week 12

Chapter 8 — Creating Forms

CONTACT.HTML

1. Using *index.html* as a template, create the *contact.html* webpage
2. Create an external style sheet called *contact.css*and include the form styles in this style sheet. Add a link in *contact.html* to the *contact.css*style sheet
3. Modify the *CONTACT.HTML* webpage to include a <form> element
4. Set the width and center the form
5. Include headings and instructions using a numbered list
6. Include the following elements and necessary attributes (explore and include others) :
   a. <fieldset> and <legend>
   b. <input>
   c. <label>
   d. <select> and <option>
   e. <button>
   f. Include the following <input type=" "> (explore and include others):
      i. Text
      ii. Radio
      iii. Checkbox
      iv. Textarea
      v. date
      vi. email
   g. Include the following Input attributes (explore and include others):
      i. value
      ii. size
      iii. autofocus
      iv. placeholder
      v. required
      vi. id
      vii. name
   h. Dropdown lists
   i. Two buttons <button> elements
      i. Type="submit" - Submit Request
      ii. Type="reset"> Reset Form

Week 13

Chapter 9 — Integrating Audio and Video

MEDIA.HTML

1. Create the *media.html* page that includes:
   - An audio component
   - A video component
2. Be creative with the page

Week 14

Chapter 10 — JavaScript

1. Include a Favicon