CST8285: Web Programming

Assignment 1

HTML, CSS

Objectives

- Allow students to practice their skills in structuring web content with HTML, styling it with CSS

Learning Resources

- Review the PowerPoint Slides and in-class code (week 1 to Week 6).
- HTML & CSS online reference Https://www.w3schools.com
- HTML & CSS cheat sheet provided on the Brightspace.

Description

- In web development a personal portfolio is an important tool for job hunting. In addition to containing all of your resume information it should also include links to live examples of your work demonstrating skill with professional formatting and layout as well as interactive content. Your overall goal with the project is to create your Personal Website using HTML from scratch. The website you create will provide a comprehensive portfolio about who you are and what makes you differentiated from the rest of the pack. Your website should be clean, professional, and presentable.

  The web page should reflect your academic studies and have some focus on your professional ambitions. The website can be fun and light-hearted but should ultimately represent yourself in a positive way to a general viewing audience.

Website Structure Overview

First Page, Landing page (index.html)

The first page is the introduction page. It must contain a title (containing your name), a picture of you (or any picture you like), A description of yourself in two sentences or less. Emphasize the most important word(s) by putting them in bold, it will include some information on yourself, your hobbies, and your activities, information about the college, and a link to your college.

Note that you may only use the gif, jpeg and png image file formats in web pages.

Second Page(resume.html)

This page will include the following:

- **Contact Information**

  - Your full name.
  - Email address.
  - Phone number (optional).
  - LinkedIn profile (optional).
  - Any other relevant contact details (GitHub, personal website, etc.).

- **Summary or Objective**

  A brief, one or two-sentence summary of your career objectives or what you're looking to achieve.

- **Work Experience**

  List your work experiences in reverse chronological order (most recent first).

  Include the job title, the company or organization's name, the location, and the dates of employment. Provide a brief description of your responsibilities, accomplishments, and any relevant achievements for each role.

- **Skills**

  Highlight your technical and soft skills relevant to your field.

- **Education**

  List your educational background, starting with the most recent degree.

  Include the degree earned, the institution's name, the location, and the graduation date. Optionally, you can mention your GPA if it's impressive.

Third Page (Projects.html)

- List at least 3 projects you have completed. Each project should include:
  - A title.
  - A short description of the project.
  - A link or placeholder for an image representing the project.

Styling Requirements:

Utilize positioning techniques in CSS as discussed in the lecture. Avoid relying solely on the default linear flow provided by the browser.

Fourth page (Contact.html)

- Design a form that collects the following information:

  - Name (Text input)

  - Email Address (Email input type)

  - Subject (Text input)

  - Message (Textarea)

- Ensure that appropriate labels are provided for each input field.

- Implement basic validation:

  - Name should not be empty.

  - Subject and Message should have a maximum and minimum character limit.

- Include a "Submit" button to allow users to send their messages.

Important Requirements

- Before beginning to build your website, please create a plan using wireframing and a site map. This will help you to organize your ideas and layout and ensure that your website is easy to navigate.
- HTML should be organized from clear semantically identified elements (eg. nav, header, main, footer, etc.)
- A minimum of four HTML pages and a single separate CSS file used by all of your assignment pages.
- Quality of presentation.
  - The site must appear professional.
- Quality of content.
  - The website should be designed to impress an employer.
- Basic, rushed, bare bones, sloppy, and/or careless projects will suffer from point deductions.
- **All pages in the site must contain the same footer, and navigation.**
- CSS is used effectively to style all assignment pages consistently.
- All formatting must be done using an external style sheet (no internal CSS)

- You will need to follow proper folder structure and naming convention: web folder, filenames, etc.
- Your "home" page should be named **"index.html"**
- The navigation bar for all pages in the site must be include working links for all of the pages that have been created thus far.
- Your code should be structured perfectly and has great spacing and indentation.
- Incorporate appropriate comments in your HTML, and CSS, to enhance readability and understanding.
- The images are well chosen and sized appropriately.
- Image paths should be relative to your web folder.
- **Responsive layout** :
  o Make sure the website is responsive, meaning it should adjust well to different screen sizes (desktop, tablet, and mobile).
- Don't use table for layout, you should use CSS.
- Do not use any copyrighted content on your webpage.
- Follow the Web Content Accessibility Guidelines (WCAG) discussed during the lecture.
- Validate all the HTML and CSS pages. This will ensure that your website meets coding standards and is free of errors.

This project is very open ended. Use your creativity and have fun with it.

- Demo and justify your work and provide correct answer to professor questions. Inability to provide satisfactory answers to the professor's questions may result in a deduction of marks or, in severe cases, a zero mark for the assignment.
- The work will be graded zero if you do not demo it on time, even if uploaded.

Assignment Strategy

This assignment must be done individually.

Submission

Create a new folder named "assignment1".

- Place all website-related collateral, including code, images, and any other relevant files, inside the "assignment1" folder.
- Organize these files within **appropriate subfolders**, ensuring they can be seamlessly installed in a subdirectory on the lab instructor's system.
- Include a wireframe representing the structure and layout of your web page.
- the validation screenshot for both the HTML and CSS files associated with your assignment.

Once all components are ready and organized in the "assignment1" folder, compress (zip) the folder.

Upload the zipped "assignment1" folder to the designated assignment submission area on Brightspace.

Suggested Weekly Schedule

- Week 4 – wireframe creation & Content creation
- Week 5 – Add style.
- Week 6 – Testing and documentation.
- Week 7- Double check your work and submission

Due Date
- **Thursday, October 17, 2024, at midnight**

Grading

Criteria	Excellent (10)	Average (5)	Poor (0)
Content	The website has four pages, and each page contains complete content as per the instructions	The website has four pages, organized but may not complete as per instructions	missing criteria or poorly represented
HTML Organization	HTML is well-structured with clear semantic elements, following best practices.	HTML is organized but may have minor issues or inconsistencies.	missing criteria or poorly represented
CSS Usage	CSS is used effectively to style all assignment pages consistently using one external style sheet	CSS is used but may have minor styling issues or inconsistencies.	missing criteria or poorly represented
Quality of Presentation	The website appears highly professional, engaging, and impresses an employer. A consistent navigation bar present at the top of every page. All pages on the website must have identical headers, footers, and navigation.	The website looks professional but may have minor visual issues	missing criteria or poorly represented
Code Quality	Code is well-structured with excellent spacing, indentation, and comments.	Code is well-structured but may have minor spacing	missing criteria or poorly represented

		or commenting issues.	
Validation	All HTML and CSS pages are validated, meeting coding standards and error-free.	Most pages are validated but may have some minor issues.	missing criteria or poorly represented
Image Usage	Images are well-chosen, suitably sized, and relevant to the content. Images used are located in the "images" sub-directory and all images with descriptive alternative text	Images are mostly suitable but may have minor issues or relevancy concerns.	missing criteria or poorly represented
Responsive Design	The website is responsive with both mobile and desktop modes available.	The website is mostly responsive but may have minor responsiveness issues.	missing criteria or poorly represented
Submission	All deliverables are correctly uploaded and submitted according to instructions including the wireframing, site map and validation screenshots.	Missing some deliverable items	missing criteria or poorly represented

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