CST8285: Web Programming

Assignment 1
HTML, CSS & JavaScript

Objectives

- Allow students to practice their skills in structuring web content with HTML, styling it with CSS while also adding interactivity and functionality with JavaScript.

Learning Resources

- Review the PowerPoint Slides and in-class code (week 1 to Week 9).
- HTML & CSS online reference Https://www.w3schools.com
- HTML & CSS cheat sheet provided on the Brightspace.
- JavaScript online reference MDNhttps://developer.mozilla.org/enUS/docs/Web/JavaScript/Reference

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 CSS and JavaScript 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

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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**

    - o Your full name.
    - o Email address.
    - o Phone number (optional).
    - o LinkedIn profile (optional).
    - o 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)

Showcase your notable projects, including personal and professional ones.

For each project, include **a title, a brief description, the date completed, technologies used, and screenshot or image related to the project**. List at least four of your projects (in web programming or any other project).

Organize the projects within a container. Each project should be represented by a <div> element containing the title, description, date, and an image.

Implement **JavaScript** to allow users to move between projects. Add "Next" and "Previous" buttons that show or hide project information one at a time, creating a simple slideshow for browsing through projects.

Fourth page (Contact.html)

In the "Contact" page, provide a form that includes fields for Name, Email, Message, and a Submit button.

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, body, 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.
- Your code should be commented in such a manner as Concise, meaningful, and well- formatted
- The images are well chosen and sized appropriately.
- Image paths should be relative to your web folder.
- Responsive layout with both a mobile and desktop mode available.
- 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.

Other Important Requirements

- Demo and justify your work and provide correct answer to professor questions.
- 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

When the assignement is completed and tested you will package up the deliverables as follows:

- All website collateral (code, images, etc.) arranged in folders so that they can be installed in a subdirectory on the lab instructors.
- A wireframe for your web page.
- Screen shots of the validation results for all the HTML and CSS files
- Upload the **zip file** on Brightspace.

Suggested Weekly Schedule

- Week 3 – Read the assignment.
- Week 4 – wireframe creation & Content creation
- Week 5 – Add style
- Week 6 & 7 – Add JS
- Week 9 – Testing and documentation. Double check your work and submission.

Due Date
- **Sunday 5/11/2023. …. 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 an external style sheet	CSS is used but may have minor styling issues or inconsistencies.	missing criteria or poorly represented
JavaScript Functionality	JavaScript implemented effectively to allow users to navigate between projects using "Next" and "Previous" buttons.	JavaScript implemented but may have minor issues or limitations.	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 or commenting issues.	missing criteria or poorly represented
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	missing criteria or poorly represented

		responsiveness issues.	
Submission	All deliverables are correctly uploaded and submitted according to instructions.	Missing some deliverable items	missing criteria or poorly represented