CIS 435/525 Fall 2019   Web Technology

Project 1: Creating a Personal Web Site
Assigned: 9/19/2019
Due: 10/6/2019
Total Points: 50

Introduction

The purpose of this project is to practice writing basic web pages with HTML and CSS and deploy them. You will have to write two static web pages and one or more style sheets. The first web page is your UMD personal home page. The second web page is your CIS 435 or 525 course page, where you will post your finished projects.

Prerequisites
- Chapters 2 through 8

Skills
As you develop your website, you should of course demonstrate your HTML and CSS skills. To that end, the initial version of your website should show your mastery of:
- Headings, text, and character entities
- Links and lists
- Images
- Margins and padding
- Borders and backgrounds
- Floating
- Responsive Web Design

HTML and CSS files and directories
- The HTML file for the home page should be named index.html.
- The names of the other pages should indicate what the pages represent.
- The images for the website should be stored in a directory named images, the CSS files should be stored in a directory named styles, and the HTML files should be stored in the root directory for the website.

Part 1: Personal Home Page

Create a page named **index.html** that describes you. On your page, include some or all of the following information (just a suggestion):
- Your name
- A short bio or description of yourself.
- A list of classes you are taking right now.   Make a link to your CIS435 or 525 course web page. *Hint: Use relative URLs so that links don't break as the pages are moved. All file names are case sensitive.*

- ~~Your 3 favorite~~ sports, movies, books, or TV shows. Make at least one link to an interesting site.
- Two images ~~(e.g. one of your personal pictures).~~

The general layout of your Home Page (similar to the example below)
- ~~Use a 2-column layout (chapter 6).~~
- ~~Includes a two-tier horizontal navigation menu (chapter 7).~~
- ~~Uses Responsive Web Design (chapter 8).~~

Part 2: Personal CIS525 Course Web Page

~~Create a personal course web page that describes the course, a list of topics and assignments, and useful web resources, etc.~~

Part 3: Style Your Page with CSS

~~Create one or more style sheets to improve the appearance of your web pages. The pages must have the same visual structure to give the site consistency. You should define the~~ styles for each different element used in your web pages.

Part 4: Validate Your Page and CSS

~~Validate your HTML and CSS code to make sure they match the HTML specifications. To run the validators, do the following:~~
1. Open http://validator.w3.org/ (for HTML) or http://jigsaw.w3.org/css-validator/ (for CSS)
2. Click Browse in the Validate by File Upload section
3. Locate the local file and click Open
4. Click Check
5. If there are any errors, fix the first one, then repeat steps 1 through 4.

The key thing is to get the green bar saying that your page is valid HTML. If you see any yellow warnings about being *tentatively* valid, this is okay. Red errors are not okay.

Part 5: Deploy Your Web Site using AWS S3 Service

Log into your AWS Educate account (https://aws.amazon.com/education/awseducate/) and then go to your classroom (Web Technology).

At the AWS console, following the instruction below to deploy your website.
https://docs.aws.amazon.com/AmazonS3/latest/dev/HostingWebsiteOnS3Setup.html

Important Tips:
- Please make the following choices:
  - Bucket Name: **firstName-LastName-cis435P1**, e.g. john-smith-cis435P1
  - Turn off: Block all public access
  - Assign read permission to everyone for all your files and folders in the bucket
- Your main page must be named as "index.html"

Part 6: Deploy Your Web Site at the UMD Web Server

In addition, you should upload your files to the UMD web server (login.umd.umich.edu). You may use some ftp tools (e.g. FileZilla) to upload your files under **Public/HTML** folder.

Then, make your web pages world readable (e.g. chmod 644 index.html) and make your web folders world readable (e.g. chmod 755 images).

To test your web site, simply start a web browser and type in the URL of your home page:

www-personal.umd.umich.edu/~<username>

Grading

The grading criteria for this assignment will include: the extent to which your pages contain all the things described in the previous sections, compliance to standards, the lack of broken links, the conciseness of the HTML and CSS files, and the lack of visually disturbing artifacts that make it very unpleasant to look at the pages. Your program should work in both Chrome and Internet Explorer or Microsoft Edge.

What to turn in:

1. Upload all your files, including source codes and image files as **a single ZIP file** to the canvas under the "P1" folder.
2. Must write down both URLs of your web site in the comment section, when submitting.