Assignment No. 2
Creating Your First Web Page

Date Due: **Tuesday, September 18, 2018**

What This Assignment Is About

In this assignment you will create your first web page. That may sound easy, but there are a number of pieces involved in getting yourself and your account ready for the more complex assignments to follow. To complete this assignment successfully, your first webpage must be visible to everyone on the weblab.cs.uml.edu server.

What You Are To Do

1. I asked System Manager Tuyen Nguyen to create accounts on weblab.cs.uml.edu for all students registered for this course. Everyone should attempt to log in to weblab.cs.uml.edu with their cs.uml.edu credentials. If you have any problem doing so, please see the system managers or their assistants.

   Your weblab.cs.uml.edu file system is the same as the one for your regular cs.uml.edu account. Thus, when you log in to weblab.cs.uml.edu you should see the same files that you see when you log into cs.uml.edu. Test this to ensure that it is true, and if not, again please see the system managers or their assistants.

   If you are **working off-campus**, you need to do one of the following in order to access weblab.cs.uml.edu
   (a) ssh to cs.uml.edu first, then ssh to weblab.cs.uml.edu
   (b) Install pulse to VPN to campus: https://www.uml.edu/it/services/get-connected/remote-access/

2. Verify that your file system is set up correctly. If the directories described below do not exist, create them.

   a. Log into either your cs.uml.edu or weblab.cs.uml.edu account.

   b. Under your main directory you should find a subdirectory named **public_html**. If it does not exist, create it.

   c. Check that the protection on directory `public_html` is **drwx--x--x** (711). If it is not, use the command `chmod 711 public_html` to set it to this protection.
      - *Do not change this protection! Doing so will cause you to be suspected of cheating by allowing other students to copy your files.*

   d. Check that your `public_html` directory has a subdirectory named `WEB-INF`. If it does not, create it.

   e. Check that your `WEB-INF` directory contains two subdirectories named `lib` and `classes`. If it does not, create them.

   f. Check that the protection on your `WEB-INF` directory and its `lib` and `classes` subdirectories is **drwx--x--x** (711). If it is not, use the `chmod` command to set this protection.

3. Create an HTML5 web page in your `public_html` directory that introduces yourself and can be used as an index to the future assignments in this course. Your web page need not be fancy, but it should show that you have put in effort to apply the techniques and use at least the tags that we have discussed in class so far. Try to design the page so that it can be used as an index to all of the future assignments you will do for this course. But again, your page need not be fancy at this point. You can continue to improve it throughout the semester as you learn new techniques.

4. Set the protection of your HTML file to `644` (`-rw-r--r--`) using the command `chmod 644` *your-HTML-file-name*

5. Make sure that your file contains the following documentation within `<!-- ... -->` tags at the top of the file:

    a. your full name
    b. your e-mail address
    c. your affiliation as a student at **UMass Lowell** in course **91.61 GUI Programming I**
    d. the date on which you created the file
    e. a short description of what your Web page does (this can be very short for this simple page)

    This documentation is very important and will be a major part of your grade for this assignment. Most students who do poorly on this assignment simply don't put enough effort into the documentation.

    Here is an example of proper documentation at the top of an HTML file. Documentation in this format appears at the top of virtually all the Web pages that I create by hand. You can see the documentation below in this file by selecting View–>Source in your browser.

    ```
    <!--
      File:  /~heines/91.461/91.461-2013-14f/461-assn/FirstWebPage-v03.jsp
      91.461 Assignment:  Creating Your First Web Page
      Jesse M. Heines, UMass Lowell Computer Science, heines@cs.uml.edu
      Copyright (c) 2013 by Jesse M. Heines.  All rights reserved.  May be freely
          copied or excerpted for educational purposes with credit to the author.
      updated by JMH on September 2, 2013 at 9:23 AM
    -->
    ```
    Note: The extension for this page is `.jsp` because this is a JavaServer™ Page, not an HTML5 page. Your file's extension should be `.html`.

6. Verify that you can view your web page over the Internet.
    a. Open a browser and
       enter: `http://weblab.cs.uml.edu/~`*your_login_name*`/`*your_html_file_name*`.html`

    b. note that you must **not** include `public_html` in the URL to your page
       ▪ when the server sees ~*your_login_name*, it automatically goes to the `public_html` directory in your account
       ▪ this is a feature of the Apache HTTP server running on a Linux system

7. Test your page using either:

    a. the W3C Markup Validation Service (http://validator.w3.org/)
    b. the HTML5 Living Validator (http://validator.nu/)

    To receive full credit on this assignment, your page must validate against one of these two validators with no errors. You must then indicate which validator you used (one or the other or both) on the Assignment Submission Form (see below).

Submitting Your Assignment for Grading

Please follow these directions carefully. Incorrectly submitted assignments will not be given appropriate credit.

To submit this assignment you must go to our course blackboard and submit prior to the deadline. Please always submit a zip file containing everything: 1. submit all the files related to your website (html, css), 2. a simple text file named "readme" listing your website address.

How You Will Be Graded

This assignment will be graded on a 20-point system with points awarded as follows. Please note that the lists of features provided below are not meant to be exhaustive. They are merely representative of the types of things we are looking for in each grading category. Also note that 5 of the 20 points, or 25% of your grade, is awarded for documentation.

I reiterate that your page need not be fancy. I am very aware that some students enter this class with significant prior knowledge of HTML, CSS, and JavaScript. Those students are encourage to use — and more importantly to expand upon — their existing knowledge, but no extra credit will be given **at this time** for things that we have not yet covered in class. (In the future I **will** expect you to go "above and beyond" what we have covered in class.) All students should be able to score all 20 points on this assignment, regardless of what you knew before you took this course.

Criteria	Possible Points
Access • web page is visible by our teaching assistant and me over the Internet from weblab.cs.uml.edu (see Step 6 above)	5
Content • web page must be set up so that it can serve as an index to all future assignments in this course (see Step 3 above) • content is non-trivial, that is, your page contains more than I would expect from a non-major taking 91.113 Introduction to the Internet • all content is written in proper English with correct spelling	5
Structure • properly structured as an HTML5 document • passes validation (see Step 7 above)	5
Source Code Documentation and Formatting (see Step 5 above) • user name and pertinent contact information appear in each source file • all files contain adequate explanatory documentation • all files have adequate white space for readability • all files are properly indented and formatted • all documentation is meaningful and does not merely echo code • **any sources used are cited in comments embedded within code** *Additional Notes:* • documentation is critically important in this course and is where many students lose points, especially on their first few assignments • be sure to include all the necessary information and document your work thoroughly • *note that in this assignment, documentation is 25% of your grade!*	5

* This assignment is based on 91.461 by Prof. Heines.