

WEB222 Assignment 5
Due Date: Tuesday, August 1 2017 11:00pm

Objective

This assignment will expose you to the following web technologies: HTML5, CSS(3) and JavaScript.

Description

Your task is to develop a few HTML5 web pages with style sheets and JavaScript. This assignment must be your own work. Figure 1 shows how your pages should render on the desktop.

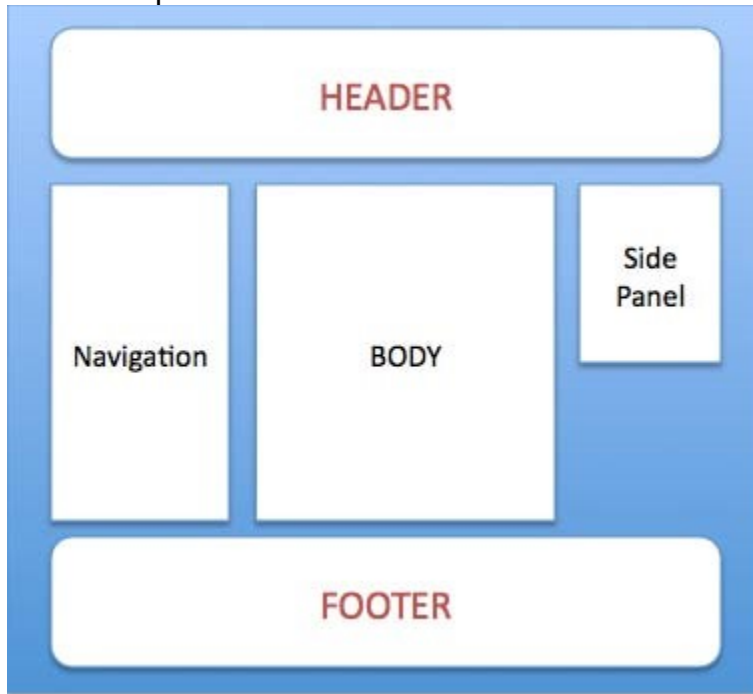


Figure 1 Layout for all pages

The specific height and width of each panel is for you to define; the provided figure is abstract schematics meant to illustrate the general layout of the pages. Your page, however, should have the following formatting: all panels should have a border; the page should have a background of some color; the text of the header and footer should be in a different color than the rest of the panels. The side panel is optional depending on your design/requirement (mandatory for registration page). For simplicity, assume that the desktop screen width is fixed and set at 1200px. Ideally there should not be any horizontal scrolling. The navigation must have links to all other pages with the currently visited page as active link. The header should contain a logo and name of your choice.

Page requirements:

- (1) Welcome page (index.html): this page is the starting page of your online store. You must understand and add the following content with your full name in the body section.

"I declare that my assignment is wholly my own work in accordance with Seneca Academic Policy. No part of this assignment has been copied manually or

electronically from any other source (including web sites) except for the information supplied by the WEB222 instructor and / or made available in this assignment for my use.

I also declare that no part of this assignment has been distributed to other students.

Name: Type your name here

Dated: Type the submission date here “

(2) User registration page (registration.html): this html page will allow a user to fill out his/her information such as first name, last name, shipping address (including unit#, street #, street name, city, province, postal code), phone#, email, username and password. The page must have password field appearing twice: to confirm password match. In addition, this html page will have a submit button, a reset button and must support JavaScript validation. The validation requirement is provide below:

- A. You must make all fields mandatory to insert for users.
- B. Password: must be 8 characters long, must start with a character, must have at least 1 digit and 1 uppercase. The password strings must match.
- C. Username: username must start with a letter, must have at least 6 characters.
- D. Province: must be selected from a drop down list of displayed provinces (only Canadian provinces allowed), you may have ONTARIO as default selection in which case no validation is required.
- E. Street name: cannot contain digits.
- F. Email: use html5 input type for default validation
- G. Phone#: must be 10 digits, hyphen in the 4th and 8th position, format allowed xxx-xxx-xxxx, for example 111-111-1111.
- H. Zip Code: only Canadian format allowed (Letter Digit Letter Digit Letter Digit), for example C1A1A7.
- I. City: must contain letters only.
- J. The name of the form must be “signup” to accept user’s input for creating user account. This form must submit to <https://httpbin.org/post> using the post method only when the form does not contain any validation errors. You have two options for displaying error messages-
 - (a) Display appropriate messages in side panel only for each error when the user clicks the submit button. There should not be more than 8 error messages in total for each display. OR
 - (b) Your code should validate the field immediately after it has been changed (if applicable) (hint: use the onchange or onfocusout etc. event handler to call JavaScript functions). Show only one error for a field, at a time. Appropriate messages must be shown for the invalid field in side panel only.
- K. You should use pattern matching wherever possible to make JavaScript code efficient. You may want to use “required” attribute as necessary. If there is no

error found, then a registration success alert is displayed and form is submitted to <https://httpbin.org/post>.

- L. This page must have two hidden fields: one with your last name as value and lastName as field name/id and the other with your Seneca student id as value and studentId as field name/id. Failure to have this hidden field with appropriate property/value will result in zero mark for this page. Example is given below:

```
<input type="hidden" name="lastName" id="lastName" value="Your last  
name goes here" />  
<input type="hidden" name="studentId" id="studentId" value="Your student Id  
goes here" />
```

- (3) Catalog page (catal.html): this html page will list at least 10 products with their information. For instance, if the online store is selling music CDs, it should list at least 10 of them with each of their price, title, release date, author, description, category, # of songs etc. You are to display image with reasonable width and height for each product you list in the online store. Be aware of copyright issues of any images you use. You may make reasonable effort for creating/designing images. There is no mark for image design though. The name of the store, logo design and the products to sell etc. are under your discretion. However, refrain from using any abusive content for the site pages. Try to be creative with the display design in this page.
- (4) CSS and JS: you must have external css file called **normalize1.css** that you will apply to html pages for presentation/layout. You will be evaluated based on creativity. You must have separate script files as necessary. All css and script must go into the external css and Js file. The name of the files must correspond to the names of the html pages (except the welcome page). Following illustrates the directory structure of your assignment 5. The indentation reflects the location of the files. You must abide by the naming of the following structure (all are lower case).

```
Assignment5 ← folder  
  index.html  
  normalize1.css  
  registration.html  
  registration.js  
  catal.html
```

- (5) Title of each page: the title tag of each page in the head section must have your last name. Failure to do so will result in mark deduction.

- (6) Browser issues: you should test your complete site with at least FX and Chrome. You may display a note in the welcome page which 2 browsers (with versions) your site works the best. Think of client's convenience. Its wise to test with different display settings/screen resolutions.

Other Requirements

- Your HTML & CSS must be well-formatted and properly commented where appropriate.
- Your code will be evaluated for correctness of syntax and appropriate usage.
- Each HTML page must **pass** the **W3C's HTML Validation**: <https://validator.w3.org/>
- All CSS used in the assignment must **pass** the **W3C CSS Validation**: <https://jigsaw.w3.org/css-validator>
- All JavaScript code must not contain any **run-time errors/exceptions**.

Final Submission Guidelines:

a) Zip all of your files as Assignment5.zip

b) Upload the zip file to My.Seneca under Assignments -> Assignment 5 (same submission procedure as all previous assignments)

c) IMPORTANT: All HTML & CSS Must not contain any errors when validated (HTML: <https://validator.w3.org/>, CSS: <https://jigsaw.w3.org/css-validator>)

d) NO LATE SUBMISSIONS for assignments. Late assignment submissions will not be accepted and will receive a **grade of zero (0)**.

e) After the end (11:00PM) on the due date, the assignment submission link on the Blackboard will no longer be available.