

BTI225 Final Assessment
Due Date: Monday, August 10, 2020 11:00pm, Worth 20%

Overview

The BTI225 final assessment is usually an exam, and covers everything in the course. However, due to the circumstances this term, we are NOT going to have an exam.

Instead, we will be using an alternate final assessment. In terms of grading, this work will be equivalent to the exam, but can be done remotely and submitted online.

Description

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

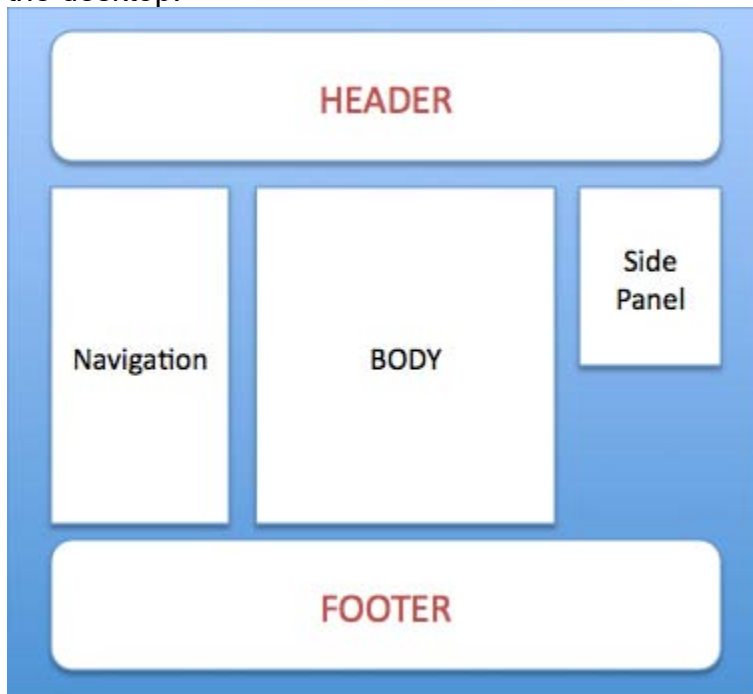


Figure 1 Layout for all pages

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 info page only). For simplicity, assume that the desktop screen width is fixed and set at 1100px. 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 (honesty.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 Final assessment 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 BT1225 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 info page (info.html): this html page will allow a user to fill out his/her information such as first name, last name, password etc. 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 provided below:

- A. You must make all fields mandatory to insert for users.
- B. First name: Must start with a cap and only alphabet allowed.
- C. Last name: Must start with a cap and only alphabet allowed.
- D. Password: must be 6 characters long, must start with an alphabet, must have at least 1 digit and 1 uppercase. The password strings must match. Pattern attribute is not allowed for this field.
- E. Username: username must start with an alphabet, must have at least 6 characters. Pattern attribute is not allowed for this field.
- F. Education Level: Dropdown list: select and option elements, required. The Education Level list should contain the following items: - select -, Technical Diploma, College Diploma, Bachelor's Degree, Master's Degree and Others. The option tag for "- select -" should have a value of "0" or an empty string.
- G. Education Status: Type of radio. The value should choose from one of the following: Graduated, Current enrolled, Did not graduate.
- H. Email: use html5 input type for default validation.
- I. Age: must be in between 18-60.
- 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 must do the following for displaying error messages-
 - Display appropriate messages in side panel only for each error when the user clicks the submit button. There should not be more than 5 error

messages in total for each display. These errors are mainly for part D and E above.

- 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 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) Reflection page (reflection.html): One reflection page (reflection.html) with the following content:

You are asked to write a reflection content that is 500-600 words in length. In your reflection page, please address all of the following:

- Explain the concept of Responsive Design. What does the term mean? What did you discover in your research?
- How does responsive design relate to web technologies? How can web pages take advantage of it?
- What did you learn about building web apps for different devices through your research?
- Finally, describe your learning experience in the course.

Your reflection page should be free of typos and grammatical/spelling errors, and use full sentences and paragraphs. If you quote or reference any resources online, make sure you include proper citations (Do not COPY/PASTE without reference). Your reflection must also be your own work. You may not collaborate or copy material from other sources or students.

- (4) CSS and JS: you must have external css file called **normalize.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 final assessment. The indentation reflects the

location of the files. You must abide by the naming of the following structure (all are lower case).

```
Final_Assessment ← folder
    honesty.html
    reflection.html
    normalize.css
    info.html
    info.js
```

- (5) Title of each page: the title tag of each page in the head section must have your Full 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 (testing with Edge/Brave/Safari is optional). 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.
- (7) Crate a GitHub account, upload and provide the link for the **public GitHub link** in the footer of the info.html page.

Note: This is a take home final assessment. I may not respond to clarification question and I expect you to do research to work on your solution based on the requirements above. This includes understanding terms such as responsiveness, reflection work and how to create account/upload files into GitHub etc.

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 Final_Assessment.zip

b) Upload the zip file to My.Seneca under Assignments -> Final Assessment (same submission procedure as assignment 4 and 5)

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 Final assessment. Late submissions will not be accepted and will receive a **grade of zero (0)**.

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

f) **Note: One of the course promotion policies says “Pass the final exam” to obtain credit in this subject.**

Evaluation Rubric:

Partial marking is up the discretion of the instructor.

- Info page fields with validation attributes (user friendly display is required): 6 marks
- Reflection page: 4 marks (zero will be assigned for copy/pasting)
- Github upload and link: 1 mark
- JS code: 6 marks
- CSS rules (note the rounded corners for header/footer): 3 marks
- Honesty page: 0 marks, but 50% marks will be deducted for the whole assessment if this page is missing.
- Also, note the red statements for the hidden fields in the info page and requirement # 5.