WEB222 Final Assessment – Fall 2021

Overview

The WEB222 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.

The assessment has three parts and builds on your knowledge to create websites. Specifically, you will be asked to do the following:

1. Create a personal website with information about yourself, your interests, and your expertise. (worth 16%)
2. Research and Implement a Static Hosting solution for your final assignment, so it can be viewed online (worth 5%)
3. Create a reflection document about the work you did in step 1. (worth 5%)

Submission

All 3 parts of your final assessment are due by midnight, December 10th.

You can include Part 1 with your final assignment: when you hand in your final assignment, include all the code for your Responsive Design as well.

You can submit Parts 2 and 3 via Blackboard, including the website URL in the comments section and uploading the video.
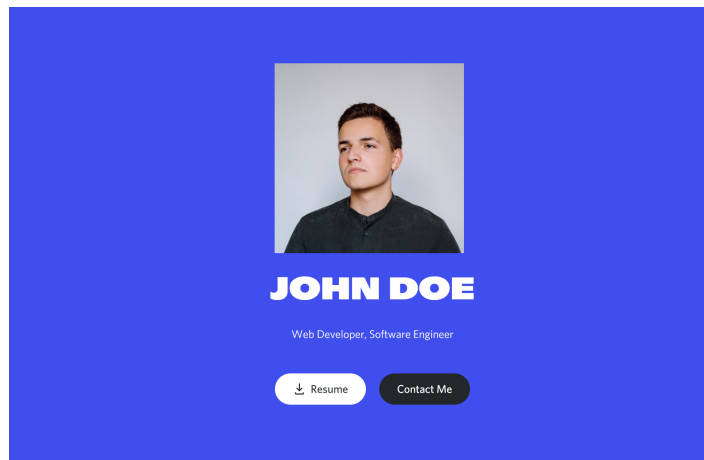
Part 1. Responsive Design (16%)

You are asked to create a personal website to show off your skills as a web developer to possible employers. You are responsible for researching and implementing all aspects of this on your own.

Your website will be expected to have the following structure:

- All website content should be centred in the viewport, having equal margins on left and right. The page content should cover 90% of the viewport width (the width of the browser window). However, the content width should be limited to 1100 pixels, never growing larger than that (take a look at max-width css property).

- You are asked to modify your website in order to provide a Responsive Design that works well on Mobile devices (both landscape and portrait orientations) as well as Desktop browsers. You are responsible for researching and implementing all aspects of this on your own.
- The website will be divided into different sections being recognized by either a stylish horizontal line or different background colour (see discord.com for an example).
- The top section should have the following structure, showing an image of yourself along with a title you hope to get in the future and two buttons. The contact me button should point to the contact me form, which will be discussed in more detail. Note that the exact styling is up to you, make it your own. You can use Google Fonts and Font Awesome to improve the website's aesthetics.

- Create an infographic section that tells us about you. Again, the styling is up to you, make it your own, but try to recreate this structure.

- Create an education section that tells us about your education. Use your own style to convey the same information with a similar structure.

Education

- Include an HTML Form for the user to fill out their information along with a message to you (a contact me form). Your form should include the following, and all fields should be mandatory unless otherwise noted, and use the most appropriate <input> type:

  - Name
  - Email Address
  - Address
  - City (use a <datalist> for autocomplete of common Canadian cities)
  - Postal Code (must be a valid Canadian Postal Code, with or without a space, use a regex pattern)
  - Radio Options to specify what this is about: one of "Question", "Comment", or "Hiring". If the user selects "Hiring", dynamically reveal (with JavaScript) another input box to enter the hourly rate (with proper validation). In the case of "Comment" or "Question" hide this input box.
  - A large area to enter the message that they want to send
  - A hidden field with the value being your name and Student ID

- The form should submit to https://httpbin.org/post using the POST method, and only allow the user to submit when all data has been entered and there aren't any validation errors. The data posted to httpbin.org should include all data defined in the form above (e.g., visible and hidden fields).

Part 2. Static Hosting (5%)

You are asked to research and implement a static hosting solution for your final assignment. Your final assignment, including your responsive design, should be accessible via a public URL. You do not need to spend any money to achieve this, since many free hosting services exist:

1. Netlify - https://www.netlify.com/

2. Zeit https://zeit.co/
3. GitHub Pages - https://pages.github.com/
4. Firebase - https://firebase.google.com/docs/hosting

If you would like to consider registering a Custom Domain Name, that is also something that you could do. See more info at https://www.cira.ca/ca-domains/register-your-ca. This is optional, and not required, but good experience for all web developers.

Please submit the public URL for your project. All pages, images, etc. must work and not return 404s or other errors.

Part 3. Reflection Document (5%)

You are asked to create a reflection document. In your document, please address all of the following:

- What techniques, technologies, and patterns did you use in your website?
- Explain some of the main features of HTML Forms and Input elements you used to help make sure the user's input was valid for your forms.
- How did you test that your forms were working, and did this testing find any bugs in your implementation? How did you address these?
- What advice would you give to other web developers building forms for their pages based on your own experience? What lessons did you learn?

You may not collaborate or copy material from other sources or students.