

## Front-End Web Design

### Project 02 – Build a BCIT SSD Program Web Site

**Course Value: 40%**

**Due: End of day – April 16, 2018 – 11:59pm**

#### General Instructions:

- 1.) Form groups of 2 with your fellow classmates. If the class has an odd number of students, then 1 group in the class may consist of 3 students
- 2.) Create a fully responsive web site for the BCIT SSD Program, based on the specifications laid out in the “bcit-ssd-web-site-specs.pdf” document located in the “day-12” folder
- 3.) The web site must be fully responsive and be useable between screen sizes of 320px wide to 1920px wide
- 4.) The web site must be version controlled with Git with your project’s code hosted on GitHub
- 5.) The web site should be written in HTML / CSS (Sass) / JS with the optional use of PHP for template files or other dynamic content.
- 6.) CSS should be written in Sass.
  - a. Note: To avoid merge conflicts, I recommend setting up a “.gitignore” file that will ignore compiled CSS files (not in a build folder) and will ignore “.sass-cache” files generated by Sass
    - i. If you would like a starter “.gitignore” file for web development you can try one that I have created at the link below (you may have to tweak the folders for the ignored CSS files):
      1. <https://goo.gl/Af9RjL>
- 7.) Your web site should be able to run in the following browsers:
  - a. Edge (latest, note: BCIT MS Edge browsers are a version behind, but I will test in the latest Edge version not the BCIT version)
  - b. Chrome (latest, again BCIT Chrome is a couple of versions behind, but I will test in the latest version)
  - c. Firefox (latest, same as above, I will test in the latest release)
  - d. Safari (latest, if you don’t have a Mac, just test in Chrome)
- 8.) Other than a PHP server, your web site should be able to run in a browser without any special software or plugins required. If you are using a build system, then see the submission instructions on the next page
- 9.) You are permitted to use frameworks or libraries for this project, however projects should look unique, don’t just submit a bare bootstrap site with no additional styling

### **Submission Instructions:**

- 1.) All your project's code and any required media (images, documents, videos, etc.) should be uploaded to your group's GitHub repository for this project.
- 2.) In D2L submit a "pdf", "docx" or "txt" file to the "Project 02" dropbox with the following information:
  - a. The name of each group member along with their student number, for example:
    - i. Joe Smith: A00123456
    - ii. Sarah Clark: A00123457
  - b. The URL to your publicly accessible GitHub repo
  - c. Any project installation instructions that I will need to run your project in a browser. For example:
    - i. If using PHP, let me know.
    - ii. Any required Sass to CSS compilation instructions
    - iii. If using a build tool such as Gulp, any instructions required to build your project
    - iv. Ideally as a courtesy, if you are using a build system or just Sass, then you should create a build folder in your project with your fully built and compiled web site in it. Then just let me know in your instructions that I should run your web site from that build folder

### **How You Will Be Marked:**

#### **All Instructions Followed (10 marks)**

- Followed all the above instructions
- Followed all the submission instructions
- Met the minimum web site specifications as laid out in the "bcit-ssd-web-site-specs.pdf" document located in the "day-12" folder

#### **Quality of the Code (15 marks)**

- HTML code is valid
- Include a responsive meta tag in the head section for mobile
- Proper use of HTML5 semantic tags (header, nav, main, section, article, footer), and not just "divs" everywhere
- All non-decorative images have "alt" attributes with a value that describes the image
- Use responsive image techniques for larger images
- HTML form code written correctly
  - o Labels present for inputs, and properly linked to inputs with the "for" attribute
  - o Form is validated either with HTML or JavaScript before form is submitted
- Sass code properly divided and organized into partials
- Sass/CSS implemented properly
  - o Use layout code (Flex/CSS Grid) for site layout
  - o Use positioning (absolute, relative, fixed, sticky) appropriately if required
- JavaScript is error free

## How You Will Be Marked (con't):

### Design and Usability of the Web Site (15 marks)

- Design has a custom and professional design
  - You will score low, if you submit a barebones bootstrap site with no custom styling
  - You will score high if you do the following:
    - A consistent custom design language throughout the site
      - Consistent colour themes
      - Consistent fonts used throughout the site
    - A consistent and easy to use site navigation
      - You should be able to easily find all pages on the web site
    - Follow good web typography guidelines
      - Long passages of text are broken up into sections with headings and sub-headings
      - Text is nicely spaced out with decent breathing room around blocks of text
      - Text is neither too narrow, nor too wide for comfortable reading
      - Text has good contrast when set against its background
    - Content is properly aligned with other content on the web site
      - Repeatable grid patterns
      - Consistent spacing between web site elements
    - Site loads in a reasonable amount of time
      - The physical sizes of images are only as large as needed for the web site
    - Site is usable at any screen width between 320px to 1920px

### Marking Criteria:

- |  |                 |
|--|-----------------|
| - All instructions followed            | 10 marks        |
| - Quality of the code                  | 15 marks        |
| - Design and Usability of the web site | 15 marks        |
| - <b>Total</b>                         | <b>40 marks</b> |

### Late Project Policy:

- 5% per day up to a maximum of 30%