

WEBD6201 – Client-Side Scripting

Lab 1

DOM Manipulation

Due: Week #3 (Friday January 24, 2020) @ midnight.

Value: 5%

Dom Manipulation

Maximum Mark: 21

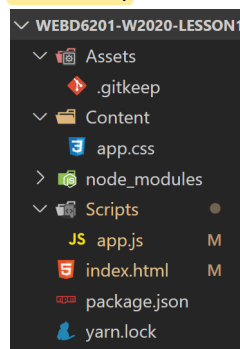
Overview: This lab was made to practice and reinforce your DOM manipulation skills. You will have the opportunity to investigate and identify elements and attributes within an in-depth DOM. You will also get to practice changing elements within the DOM.

Instructions :

(5 Marks: Site Structure, 8 Marks: Functionality, 4 Marks: Internal Documentation, 4 Marks: Version Control)

1. Project Setup (5 Marks Site Structure)

- a. Your folder structure should follow the same structure shown in class: (1 Marks: Site Structure)



- b. Create a basic HTML page with a structure as shown in class using **emmet** (see <https://docs.emmet.io/abbreviations/syntax/>). The page should include a link to your app.css and your app.js files from the appropriate folders (Content and Scripts respectively) (1 Marks: Site Structure)
- c. Ensure that you include **jQuery**, **bootstrap**, and **font-awesome** as shown in class. You will use the yarn package manager to acquire these files (1 Marks: Site Structure)
- d. Add a **bootstrap Nav Bar** as shown in class. Ensure that it includes several links including **Home**, **Products**, **Services**, **About Us** and **Contact Us** (the 5 pages that most sites include). (2 Marks: Site Structure)

2. Simple DOM Manipulation (8 Marks: Functionality)

- Using only JavaScript change the **Products** link found in the Navbar above to **Projects**. (2 Marks: Functionality).
- Using only JavaScript, add another link to the Navbar above named **Human Resources**, that sits between **About Us** and **Contact Us**. You may **not** hard code this in the html file this must be done using DOM manipulation. Ensure that you also include an appropriate font-icon using Font-Awesome (3 Marks: Functionality).
- Using only JavaScript, add another Navbar at the bottom of the page that is a “fixed bottom” navbar (see <https://getbootstrap.com/docs/4.4/components/navbar/>). Ensure that you include a copyright statement with the current date in the Navbar. Your final navbar should look like: (3 Marks: Functionality)

© Copyright 2020

3. Include **Internal Documentation** for your program (4 Marks: Internal Documentation):

- Ensure you include a comment header at the top of your app.js file that indicates: Your **Full Name, StudentID and Date Completed** (2 Marks: Internal Documentation).
- Ensure your program uses contextual variable names that help make your code human-readable (1 Marks: Internal Documentation).
- Ensure you include inline comments as required. As a rule the code should be descriptive but sometimes some information is required, especially before any function you include (1 Marks: Internal Documentation)

4. Share your files on **GitHub** to demonstrate Version Control Best Practices (4 Marks: Version Control).

- Your repository must include **your code** and be well structured (2 Marks: Version Control).
- Your repository must include **commits** that demonstrates the project being updated at different stages of development – each time a major change is implemented (2 Marks: Version Control).

Evaluation Criteria

Feature	Description	Marks
Site Structure	Your Project adheres to the site structure described (including Assets, Content and Scripts folders)	5
Functionality	The program's deliverables are all met and the program functions as it should. No errors appear as a result of execution. User Input does not crash the program.	8
Internal Documentation	A comment header is present and includes the name of the student, studentID, and date completed.	4
Version Control	GitHub commit history demonstrating regular updates.	4
Total		21

SUBMITTING YOUR WORK

Your submission should include:

1. A zip archive of your project uploaded to DCCconnect
2. A link to your complete project files on GitHub

Please zip all files in to a single project archive.

This assignment is weighted **5%** of your total mark for this course.

Late submissions:

- 20% deducted for each additional day.

External code (e.g. from the internet or other sources) can be used for student submissions within the following parameters:

1. The code source (i.e. where you got the code and who wrote it) must be cited in your internal documentation.
2. It encompasses a maximum of 10% of your code (any more will be considered cheating).
3. You must understand any code you use and include documentation (comments) around the code that explains its function.
4. You must get written approval from me via email.