# WEBD6201 - Client-Side Scripting

## Lab 3

# **Fun with Ajax**

Due: Week #9 (Monday March 16, 2020) @ midnight.

Value: 5%

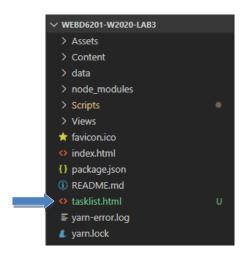
Fun with Ajax Maximum Mark: 22

**Overview**: This lab was made to practice and reinforce the use of Ajax JavaScript application programming interface (API).

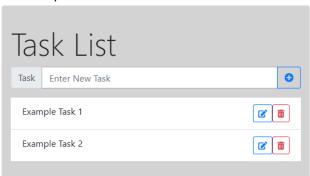
### **Instructions:**

(2 Marks: Site Structure, 12 Marks: Functionality, 4 Marks: Internal Documentation, 4 Marks: Version Control)

- 1. Project Setup (2 Marks Site Structure)
  - a. For the most part, your folder structure should follow the same structure shown in class. You may use <a href="WEBD6201-W2020-Lab3">WEBD6201-W2020-Lab3</a> GitHub repo as a starter. This will include a new page: tasklist.html page (1 Marks: Site Structure)



b. The **tasklist.html** has been created for you. It was the same page from Test 2. Use the following image as a guide to create the page (if needed): (1 Marks: Site Structure)



#### 2. Single Page Application with AJAX (12 Marks: Functionality)

- a. **Tasklist page.** Convert the tasklist.html page to a "content" page. This means you will only keep the elements in the main element with an id of "mainContent" (Hint: see other examples in the Views/content folder of other content pages). There is no JavaScript required for this step. (2 Marks: Functionality)
- b. **Tasklist page.** Using **only JavaScript and jQuery** ensure to inject the tasklist content into the main element of the index.html template page when the user clicks the Task List button in the home content page (4 Marks: Functionality)
- c. **Tasklist page.** Using **only JavaScript and jQuery** make the page function properly in the Single Page Application (SPA) structure. The DisplayTaskList function has been included for your use. (Hint: see the activateNavBar function for examples on how to attach a callback to the LoadPageContent function) (6 Marks: Functionality).
- 3. Include Internal Documentation for your program (4 Marks: Internal Documentation):
  - a. 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).
  - b. Ensure your program uses contextual variable names that help make your code human-readable (1 Marks: Internal Documentation).
  - c. 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).** 
  - a. Your repository must include **your code** and be well structured (2 Marks: Version Control).
  - b. 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)	2
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.	12
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		22

#### **SUBMITTING YOUR WORK**

Your submission should include:

- 1. A zip archive of your project uploaded to DCConnect
- 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.