LAB 3 AJAX & FETCH

Due: Week #9 (Friday March 17th, 2023) @ 11:59pm.

Value: 15%

AJAX AND FETCH   **Maximum Mark: 100**

Overview: This lab was made to practice and reinforce the use of Ajax and Fetch API calls.

Evaluation:

10 Marks: Site Structure   5 Marks: Version Control
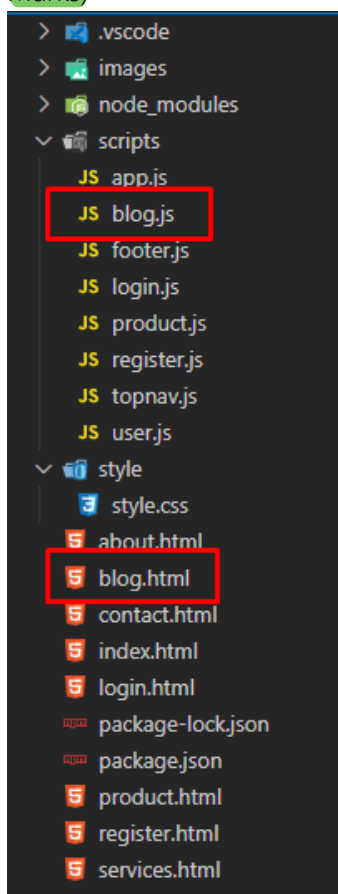
65 Marks: Functionality   10 Marks: Video Demo

10 Marks: Internal Documentation

Instructions:

1. **Project Setup (10 Marks Site Structure)**

    a. For the most part, your folder structure should follow the same structure shown in class. This will include 1 new page, blog.html, and a new .js file, blog.js. (NOTE: you may not have the same number of .js files shown here but you must at least have an app.js and a blog. Js) (4 Marks)

    b. You will need to update your stylesheet with styling for the blog page. You should give considerable time to making the blog look good. Consider using fonts, font sizing, and possibly colour to make your page look great. (6 Marks)

    c.

2. API Call with Fetch (65 Marks)

    a. **Blog Page**. Using the XMLHttpResponse Object or Fetch, use resources available at https://jsonplaceholder.typicode.com/posts to create a blog. The data returned must be read and used to create a nicely formatted series of blog posts. Ensure you have a minimum of 20 posts on the page. (20 Marks).

    b. **Blog Page**. For each blog, use a bootstrap card layout and make use of the Flexbox properties to make the page responsive. You can reference Cards · Bootstrap (getbootstrap.com) and A Complete Guide to Flexbox | CSS-Tricks - CSS-Tricks. (20 Marks).

    c. **Blog Page**. Using the XMLHttpResponse Object or Fetch, use the API Documentation at Pixabay API Documentation to get an API Key and do an API call to retrieve images. Use at least one image to put in each post, between the title and content, and make it look good. (25 Marks).

3. Include Internal Documentation for your program (5 Marks):

    a. Ensure you include a comment header at the top of your app.js file that indicates: Your Full Name, StudentID and Date Completed (4 Marks).

    b. Ensure you include function headers for all of your functions (2 Mark).

    c. Ensure your program uses contextual variable names that help make your code human-readable (2 Marks).

    d. 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 (2 Marks)

Evaluation Criteria

Feature	Description	Marks
Site Structure	Your Project adheres to the site structure described (including Assets, Content and Scripts folders)	10
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.	65
Internal Documentation	A comment header is present and includes the name of the student, StudentID, and date completed.	10
Version Control	GitHub commit history demonstrating regular updates.	5
Video Presentation	Your short video must demonstrate your site and describe your code. Your audio must be at an appropriate level and your screen must be clearly seen.	10
Total		100

SUBMITTING YOUR WORK

Your submission should include:

1. A zip archive of your project uploaded to DC Connect
2. A working link to your complete project files on GitHub
3. An mp4 of your video or a working link to your demo video posted on YouTube or another streaming provider.
4. Your Completed Lab Report.

This assignment is weighted 15% of your total mark for this course.

Late submissions:

- 25% for 72 hours after due date/time (not incremental, flat rate).

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/verbal with follow-up email