COMP 2513 Web-Centric Programming

Assignment 3 – Due Midnight October 14th

Using Ajax to make a request for data: This assignment is based upon what you have learned about HTML, CSS, JavaScript, and jQuery and Bootstrap in class and from the tutorials on each at http://www.w3schools.com/.   You are to create a simple page which, when loaded, retrieves XML or Json data from a remote URL using jQuery's ajax method, and displays that information.

For example, using Open Data from the Nova Scotia Government (http://data.novascotia.ca), we could retrieve a list of "Access Centres Offices & Hours" from their published URL, https://data.novascotia.ca/resource/b5tc-55fa.json. The page would execute an Ajax GET request for the URL, and then iterate (using jQuery's .each(), for example) over the data result, building HTML to display on your page.

Your solution should contain the following:

1. One HTML file, one JS file, one CSS file
2. Identify a publicly accessible URL for data (e.g. from http://data.novascotia.ca)
3. When the page loads, the user should see a "please wait" animated gif image
4. When the page loads, it should retrieve the data and display it
5. Use of jQuery's .ajax method to retrieve data (http://api.jquery.com/jquery.ajax/)
6. If there's an error retrieving data, alert the user (note ajax's 'success' and 'error' properties)
7. Use of jQuery's .each method to iterate over the data (http://api.jquery.com/jquery.each/)
8. Using JavaScript, constructing the HTML output from the data retrieved, and placing that HTML on the page for the user.
9. Your project should be both submitted to the drop box for grading, and posted on Acorn.

Marking Scheme: The marking of this assignment is **out of 20** will focus on meeting the requirements listed above, the fact that all components work and work together and effort/creativity exercised by the student. The following points will be awarded: 0 (poor), 1 (average) or 2 (well done) points for each of requirements listed above,

Submission: You will need to place your solution for the assignment on falcon so that the TA can review it for marking. Place it in a directory http://falcon.acadiau.ca/~username/Assignment3/. We will not go searching for websites. Please ensure the website is assessable as requested or marks will be deducted. After you have successfully completed the assignment and ensured that it is web accessible, zip up all of the components and submit it to acorn.acadiau.ca. This must be received by the due date in order for the assignment to be marked.

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Please contact me or your TA if you need help, and feel free to utilize the discussion forum. You may also use the various files and templates on Acorn and any material from the lectures.

To get started, in your JS file, add a new function, i.e. "retrieveData()". This function should be loaded when the page loads (use jQuery's 'ready' event). Then add the .ajax call to retrieveData; in the 'success' method, where you have the returned data, iterate over it like an array using .each and construct your html output. Use jQuery's .html() to append the new HTML string output to the client's HTML.