# *Web Programming III (420-C30-HR)*

# *Lab 4 – AJAX with jQuery*

Date assigned: Wednesday, Sept. 14, 2016

Date due: **Wednesday, Sept 14, 2016, 6:00 p.m.**

**Learning Objectives**

Upon successful completion of this lab exercise, the student will have:

* Understand jQuery
* Understand jQuery with AJAX
* Understand XML and reading XML files

To do:

1. Create a folder called yourusername\_C30\_L04 in your Labs folder for this course. All files will eventually need to be stored in this folder.
2. You need to make HTTP requests throughout this lab. To do that you must work on your localhost server and use http://localhost/x/y/z where x/y/z is your path. Another (better?) option is to work on your O drive and use http://csdev.cegep-heritage.qc.ca/students/yourusername/x/y/z/file.html to access your work. Make sure you copy everything to your H drive and zip it before submitting it, however.
3. FORMAT YOUR OUTPUT TO LOOK NICE.

**Part A – Easy jQuery ajax**

1. Create an html file called a\_easyjQuery.html. Include a form with two fields, a first name and a last name. Add event handlers (using jQuery) so that each time the value in the field changes the **jQuery ajax** method is called using the GET method to the server program servertime.php. The return value from this method is displayed in an h2 tag located to the **RIGHT** of the form.

**Part B – Using jQuery load**

1. Create an html file called b\_Load.html. Use the jQuery load function, when a button is clicked, read the file Lorem.txt and display the results in a div with the ID readIt.

**Part C – jQuery get**

1. Create an html file called c\_Stocks.html. Include a form which allows the user to select a stock from a list of stocks provided. This selection can be done with radio buttons, a drop down list or some other method. There should be at least 6 stocks to choose. The form can NOT have a button. Some stocks you might want to use (or use others if you like): Microsoft (abbreviation: MSFT); Facebook (FB); Twitter (TWTR); Apple (AAPL); Oracle (ORCL); Google (GOOG). As I said you can use others if you prefer.
2. When a value is selected, use the jQuery get method to call the file StockCheck.php with the value selected. The name of the value pair to send in the query string is ‘checkQuote’ and the stock abbreviation. Something like: StockCheck.php?checkQuote=MSFT.
3. Parse the XML returned and display the information nicely formatted. Check the response object or the PHP file if you want to know what the XML fields are. Note: This call will only return ONE record in the XML file.
4. Include **done**, **fail** and **always** callbacks in the jQuery get call to perform appropriate functions. See example09 on Moodle.

**Part D – jQuery post**

1. Create an html file called d\_readXML.html. Include a form which allows the user to select either the file cdcatalog.xml or plants.xml. The form can NOT have a button.
2. Use the php program generic.php and send the name value pair as: param1 and the name (including the path) of the file to load. Something like: {param1: “files/jw.xml”}
3. Use the ajax post method to read the selected file.
4. Parse the XML file returned using getElementsByTagName and other methods like in last week’s lab or in example11 from this week’s examples on Moodle. If the cd catalog is selected display a list of the following fields from all cds (Title, artist, company and year). If plants is selected display the following fields from all plants (common, botanical, light and price). Use CSS to format the items nicely as they are displayed.

**To submit**

A zip file of all the files used. Remember to copy them off of the O drive.