Assignment: Homework 8 - Ajax Applications

- Due Tuesday by 11:59pm
- Points 15
- Submitting a text entry box or a website url
- Available Nov 19 at 5am - Dec 13 at 11:59pm

Homework 8 - AJAX Applications

What you will do:

- You will use the zipped folder - **Ajax Assignment** ↓ to do this work!
  - You will find the .html file and the .xml file
- You will edit the .html file to make it valid and include a heading (such as <h1>), right after the opening body tag, and the content of that heading will be "**Homework 8 - AJAX Application**"
- Make sure you include a hyperlink so the user can go back to the main page of the course - Homework 1
- Even if you do not know XML, you can open the .xml file in your web editor and you will see that it follows a certain structure. You will follow that structure to include the information of a new CD that will have **your name** as the ARTIST and the YEAR should be the current year. Remember to save this new file with the same name, otherwise the call to that file, from the .html file will not work!
- You will upload both files to the server and open the HTML page on the browser
  - Click on the button that shows in the browser and check the result that comes up - you should see a table with all the CDs listed in the XML file, including the new one you put with your name and the current year
- You will create a subheading, after the </script> tag - it can be a <h2> with "Explanation of AJAX". Below that heading you will create one or two paragraphs to explain what is happening with the JavaScript, AJAX code you see in the .html file - make sure you explain all the AJAX calls - you do not need to explain the XML structure
- **YOU MIGHT BE ABLE TO USE GITHUB AS A WEB SERVER AS THE AJAX CALL IS ONLY CALLING AN XML FILE WHICH IS PARSED BY THE BROWSER TOO!**
- Below the paragraphs of your explanation, you will create another <h2> with the content of "**REST API**" and below that heading , you will write some paragraphs about a chosen REST API from the **List of API's** ↗. There is another website listing some API's called **Free Public API's** ↗ that you can check it out.
  - The paragraphs will be like a **REPORT** about the API you chose. The report will be read by a group of developers that you would like to convince to use the API. You can even imagine the type of company you are working for and the type of project you are developing to write that convincing report. In that report, you will include information about the following:
    TIP: DO NOT simply answer the questions below, remember that you are writing a REPORT and this is just a checklist to help you write your report!
    - What type of response file you get from the API you chose (JSON, XML, etc.)?
    - Do you need any type of key to access and use the API?
    - Do the companies need to pay any fee to use the API and if they need, how is that charged?
    - You need also to provide a link to any type of documentation that would help the developer use the API.
      TIP: Do not use the URL as the words for the hyperlink, use meaningful words to make your hyperlink accessible for users using screen readers!

Extra Credit - 2 points:

You will create another page, or, if you want, on the same page, an example using the API you chose

Write a paragraph to introduce the example and **the 2 points will be given if the example IS WORKING USING THE API YOU CHOSE TO REPORT**! The example needs to be written by you and, of course, based on the documentation of the API you chose for the report.

IF THE API YOU CHOSE USES ANY BACKEND PROGRAMMING LANGUAGE SUCH AS PHP, OR JAVA, OR PYTHON, YOU WILL NOT BE ABLE TO USE GITHUB FOR THAT EXTRA CREDIT! But if you used GitHub for the first part of the assignment, you can create another page, in another server for the extra credit and just do not forget to put a link, on the page you created in GitHub, to that new page in the other server, to it so I can see the extra credit working

To submit your homework:

1. Create the Homework 8 page with what was requested
2. Add one item to the XML file following the structure you see there
3. Update the main page of the course - Homework 1 to insert the hyperlink to Homework 8 page (remember that you will use absolute URL for your hyperlink if your Homework 1 is in server A and Homework 8 is in server B)
4. Upload all the pages, and the XML file to the web server - they should all be in the same directory
5. Test the URL of Homework 1 in the browser and make sure that the hyperlink to Homework 8 is working
6. If everything is ok, submit the URL of Homework 1 in the space provided and from that page I should be able to click on the link to Homework 8 to evaluate your work

Checklist for grading:

1. The page is showing in the browser with no errors as NOT FOUND or FORBIDDEN, you submitted the URL of Homework 1 page with the link to this assignment updated - **1 point**
2. The HTML page is working and bringing the CD collection from the XML file - **5 points**
3. You added one more CD in the XML file - **1 point**
4. The explanation about the script, in the HTML file is good and explains all the AJAX calls of the script - **2 points**
5. The paragraph(s) you wrote about API has good information to help a group decide to use or not the API and it contains helpful information to developers to use the API. The report is professionally written (you are not just answering the questions that were supposed to guide you for the report) - **4 points**
6. The link to the documentation of the API was provided, it works, and it is in a user-friendly and accessible way - **1 point**
7. The page has valid HTML & CSS - **1 points**

If you do the extra credit, and it is working, you will see the points added to the final evaluation of the assignment