

Assignment 4

Instructions:

As you start your assignment you will want to have a document file that you will save as **YOUR_LAST_NAMEAsg4.pdf**. This file will be where you will include, answers to questions in exercises, screenshots that you are required to provide, or full solutions to exercises per given instructions. If you do not know how to create a PDF file from your document file, whether MS Word or Pages on the Mac please be sure that you ask so that you don't get a 0 for not properly submitting your work.

Complete each of the following exercises and reference the Assignment Submission Instruction file found on Blackboard.

Exercise 1:

Looking at the HTML code that you have written for your indexGrid2.html file, create a DOM diagram for it.

Point Value: 40pts

Exercise 2:

This exercise is going to provide you a lot of “freedom”. I am not going to be telling you what to do, but instead you are going to be specifying where you will plan to apply interactivity within your website.

For this exercise, consider where, on all of the pages that you have created (except for those associated to Project 1, or the Brazilian restaurant), where you would want to add some interactivity. You must document your plans to include interactivity to a minimum of 3 pages. **IMPORTANT:** The interactivity that you apply must be appropriate for the page, adding something random that is outside of the page that you have created will not allow you to earn full credit.

You are required to add the following:

1. Three CSS interactivity (pp 510-517)
2. Two jQuery interactivity (pg 535; w3schools.com)
3. One JavaScript interactivity
 - a. Easy – (i.e. display item on page or navigation related)
 - i. Items considered “easy” are those that the code is provided to you in the textbook and the programming is not complex.
 - b. Moderate – (i.e. interactivity that will occur based on a user action, click of button)
 - i. Items considered “moderate” are those that require commands as onclick or onmouseover, or of a similar nature. However, these are also discussed in the textbook, if the majority of the code is provided to you in the textbook it will be considered an “easy” interactivity.

- c. Advanced (i.e. animation based on time or other aspects that have to be coded into your page, example would be the size of the window for a scrolling banner)
 - i. Items considered “advanced” are those that require the developer to use concepts of JS that go beyond some of the basics. This may be using concepts association to loops or different data structures.
 - ii. Advanced activities will receive 20 bonus points if applied correctly.

For this exercise state which page you will apply the interactivity, and what that interactivity will be.

To appropriately answer the question for full credit, include the URL of the page and be specific as to the placement of where I will locate the interactivity.

Note: there is no coding in this exercise.

Point Value: 60pts

Exercise 3:

Update your index.html page to include links to the pages in which you are adding the interaction. You should keep the name of the page (with its most recent updates) and add “Activity” to the end of the file name.

Example – if I was adding interaction to my indexGrid2.html page then I would save the file as indexGrid2Activity.html and I will include this link on my index.html page.

Follow the submission instructions for HTML pages for your screen shots.

Note: This exercise only updates your index.html page.

Point Value:

HTML validation: 9pts

Screenshot of “live” site: 6pts

Exercise: 5pts

Exercise 4:

Add the interactions that you have listed in Exercise 2 to their respective pages. You will need to update the name of your HTML pages to include the word “Activity” at the end of the filename before the .html. As stated in Exercise 3.

BE CAREFUL TO NOT OVERWRITE YOUR FILES, YOU MUST GIVE THE NEW FILENAME.

For you CSS interactivity you must save an external CSS file as

YOUR_LAST_NAMEActivity.css

For your JavaScript interactivity you must save an external script file as

YOUR_LAST_NAMEActivity.js

For your jQuery activity you need to link it to the Content Delivery Network, so you will be doing this with a link, NOT a file that you create.

Follow the submission instructions for Module 3. Every HTML file you change, and new file you create must be validated. Only HTML files are checked for accessibility.

Point Value:

HTML validation: 10pts

CSS validation: 10pts

JS validation (JSLint): 10pts

Screenshot of “live” site: 10pts

Accessibility analysis: 5pts

Exercise:

CSS interactivity: 15 pts

jQuery interactivity: 10 pts

JavaScript interactivity: 20 pts

Deliverables:

1. **YOUR_LAST_NAMEAsg4.pdf**
2. **Exercise 3**
 - a. **index.html**
3. **Exercise 4**
 - a. **YOUR_LAST_NAMEActivity.css**
 - b. **YOUR_LAST_NAMEActivity.js**
 - c. **Any of the HTML files that you have added interactivity to.**

Server Accessible (files that should be accessible on the server for your live site):

1. **index.html**
2. **YOUR_LAST_NAMEActivity.css**
3. **YOUR_LAST_NAMEActivity.js**
4. **Any of the HTML files that you have added interactivity to.**