

Assignment 5 – Adding Functionality to a Website with JS

Assigned: Tue Feb 27 2018

Due: Fri March 23 2018 11:59 pm

Learning Goals/To Do

- Practice JavaScript/JQuery by adding functionality to your online store from Assignment 4.
- Practice with Objects and Storage in JavaScript.

Requirements:

Building off of the web store that you designed and implemented for Assignment 4, add the following:

1. Required NEW page:

- a. Shopping cart page where users can view items in their cart.
 - i. Low fidelity
 - ii. High fidelity
 - iii. Implementation in HTML + CSS as needed

2. Required NEW features:

- a. The user can select a product from the variety of size, quantity, etc. options the client has.
- b. The Product Detail page should change according to user's selection. For example, if a user selected a **Tiny Fire Orange** Cat Harness, the page should update with the details of that product (i.e. update size, color and image in this case)
 - i. this should NOT be a new HTML file; use JavaScript/jquery to implement this functionality
- c. User can select products and add them to their shopping cart. There should be some visual indication to the user of how many items they have in their shopping cart.
- d. User should be able to view their shopping cart page, see the items they selected, and remove the items they no longer want.
- e. The shopping cart page should reflect the user's actual product selections.
- f. ****You do NOT need to implement the checkout process.****

Other notes:

1. You will need things we will learn from Week 7 and Week 8 lab to fully complete this homework assignment. I suggest you start with the JavaScript part and things we learn in Week 7 first.

2. **Do NOT** use any existing JavaScript libraries for this assignment (jQuery is acceptable). You are not required to use jQuery; you can use plain vanilla JavaScript or jQuery; either is fine.
3. Note: You can use VANILLA HTML/CSS code only; don't use frameworks like Bootstrap or other libraries (you can "look at it" means you can look at how they do the HTML and CSS and format in a similar way, but DON'T import Bootstrap or other libraries).
4. Please cite any external resources you use.
5. Your website does not have to be responsive to screen size changes. However, please test your website for **1366 x 768** screens using the [Developer Tools Device Mode](#).
6. Please follow Google's [HTML](#), [CSS](#), and [JavaScript Style Guidelines](#).

Deliverables (27 pts total)

1. **(4 pts total)** Low & High-Fidelity Prototypes:
 - a. **(1pt)** A low-fidelity rough sketch for the required new page and features.
 - i. **(1pt)** You can add to your sketch for the previous assignment, but please explain how your sketch changed. Otherwise, simply explain your design choice.
 - b. **(1pt)** A high-fidelity digital mockup for the required new pages and features.
 - i. **(1pt)** You can add to your mockup for the previous assignment, but please explain how your mockup changed. Otherwise, simply explain your design choice.
2. **(21 pts total)** Web Prototype w/JavaScript: (14 pts)
 - a. At least 1 JavaScript file
 - i. **(4pts)** Page updates when selecting product details
 - ii. **(4pts)** Adding to cart + visual indication of items in cart
 - iii. **(2pts)** Removing items from shopping cart
 - b. **(2pts)** All HTML/CSS files from Assignment 3
 - c. **(1pt)** A new HTML file for the required new page linked to the main page
 - d. For HTML files:
 - i. **(1 pt)** Make sure each of the pages renders without error. Use the Developer Tools in Chrome to do this, and also use the [HTML validator](#) to validate your HTML file.
 - ii. **(1 pt)** Indent and comment your code; follow the HTML style guides.
 - e. For CSS files:
 - i. **(1 pt)** Make sure the CSS file is well formatted and use the [CSS validator](#) to validate your CSS file.
 - ii. **(1 pt)** Indent, comment and follow the CSS style guides.
 - f. For JavaScript Files:
 - i. **(2 pts)** Interactions should work without error. Use the Developer Tools in Chrome to help you with this.

- ii. **(2 pts)** Indent and comment your code; follow the JavaScript style guides. (see above)

3. **(2 pts total)** Reflection:

- a. What challenges or bugs you encountered?
- b. How did you overcome the challenges?

Submission:

1. Include all the files required in this write up in a new folder you should call *assignment_5* under your main Github folder. You should include:
 - a. Write up of your reflection in pdf or MSword format
 - b. All files for the homework
 - c. You should put your css, js and image files (and other font files etc. you are using) under the Assets folder. If you have multiple css or js or image files, create separate folders within Assets and put them there (i.e. Assets/Images or Assets/css). It is a good way to keep your code organized.
2. Make sure you do a **git pull** before you start working.
3. Always (for every change, big or small) do a:
 - a. **git add ***
 - b. **git commit -m "Please write a message that makes sense here; it is good practice"**
 - c. **git push**
4. The deadline for the Assignment is Fri March 23 2018 11:59 pm. We will count as your final submission the last **git push** before that time. Anything pushed after that date and time will be counted as late submission.

★ **Bonus (8 pts total)**

- Add "wishlist" functionality, where users can add products to their wishlist and view their wishlist (either on the shopping cart page or its own separate page). (max 3pts)
- Add a carousel on at least 1 Product Detail page that shows similar products. The carousel should be able to scroll left and right. See an [example here](#) taken from Amazon.com. (max 5pts)