

## COSC 2P89 — Assignment 2

For this assignment, you'll be adding additional functionality to your products<sup>1</sup> website. You aren't *required* to build off your first assignment, but you're welcome (and encouraged) to.

The informal requirements are as such:

You're to have a site with multiple pages. One is a product overview (a listing of multiple items). Each product/item also has its own page. Your site will allow for a *wishlist* (effectively a shopping cart, but without requiring transactions or server communication). The product overview page should have a mechanism for potentially directly adding/removing any item on the list, and each product page needs a similar mechanism for adding/removing that single item. Of course, anywhere you can change the contents of your wishlist, you must also be able to see whether the item is already in it.

You are also to have an *additional* page, with a *dynamically*-generated listing of the items within your wishlist. You need to be able to *remove* items from it here, but not add to it.

Your wishlist will be stored entirely client-side, so the server is only needed for serving HTML/CSS/JS pages.

### Tips

Of course, you'll be using `localStorage` for this. First and foremost, this is a *JavaScript* assignment. You'll want to put some thought into precisely how you'll be storing entries. You're welcome to come up with filenames/conventions that make this easier, but the generated wishlist will obviously need a reasonable amount of data to go by. You're encouraged to revisit how the JSON format works.

Though the product overview should have images, there's no need for the dynamic listing to have them (though you're welcome to, if desired). The idea for the dynamic listing is it's a quick summary, so text is reasonable.

**Important:** Lots of people have multiple tabs open simultaneously. It's easily conceivable that the same item page could be open in more than one tab simultaneously. Imagine the following:

- I have the same air hockey table open in two tabs
- In one tab, I realize I want it, and add it
- In the second tab, I try adding it again
- I then look at the dynamic list. What should I see?

There are two allowable behaviours:

1. There is only a single entry for the air hockey table
2. There is only one entry, but it has a 2 beside it

It's up to you which you prefer (the former is probably easier). But seeing two separate entries, as though they were different products, is *not* permitted.

### Resources/credits

It's fine to reuse whatever resources (e.g. image assets) you may have borrowed for the first assignment, but still give credit in this assignment as well (as it's a separate piece of work).

The point is: *still* give credit where it's due.

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<sup>1</sup>Or whatever you wish to catalogue.

## Past work

As mentioned above, it's perfectly fine to use your first assignment as the basis of this one. There are fewer restrictions on visual style this time, but it should still look *somewhat* decent, so it couldn't hurt to reuse styling.

## Grading

The assignment will be graded out of 12.

Grading is as follows:

- 2 for overview page
  - 1 for properly displaying wishlist status of each item
  - 1 for reliably modifying it
- 3 for dynamically-generated wishlist page
  - 2 for generating the list (from scratch from local storage, building up a decent list)
  - 1 for being able to remove items, handled reasonably
- 1 for accuracy across tabs (see tips)
- 1 for the totality of the individual product pages
  - Including indicating if each is in the wishlist
- 1 for reasonableness of your data management
  - If it works without bugs, you'll likely get this; it's basically a reward because this is the trickiest part
- 2 for reasonable layout of the webpage and usability itself
  - For layout, if you understood how to lay out A1, you'll probably do okay here
  - Keep in mind you shouldn't have the same content rewritten half a dozen times across multiple files
- 2 for reasonable JavaScript
  - Seriously: you shouldn't have the same content rewritten half a dozen times across multiple files

Make sure your page has enough 'products' such that the marker can easily test your page.

As of this assignment, I no longer care if you write your styling manually, or use tools/libraries (so long as libraries are cited). Still write all of your own JavaScript, though.

## Submission

You'll be submitting through Brightspace.

Just bundle everything up into a single **.zip** file, and submit that.

**Important reminder:** Brightspace doesn't have a pleasant interface. So include your *name*, *Brock username*, and *student number* within commenting at the beginning of **each** file.

To ensure that you receive a grade for this assignment, you must additionally host a copy of your assignment on your homepage. Specifically, the marker will go to:

**`https://www.cosc.brocku.ca/~yourusername/A2/index.html`**

to test your page. If you don't make this possible, you will not have grounds to request a regrade. Same goes for if you submit a .rar, .7z, or anything but a .zip.

One final (and **important**) tip: friendly reminder that 'the point' isn't 'the outcome' but rather 'the process'; this assignment covers the 'fundamentals' we've discussed in lecture and lab. Rando-AI-slop absolutely **will** produce a valid appearance, and **might** behave fine, but will almost certainly **not** include 'the point'. So, please, avoid any awkward future conversations, k?