

Code Review Questionnaire #2

Given the following problem statements from the student, what would you say to advise them?

"When I add items to my cart, everything works. Then if I go to the cart page the cart is empty."

Since the task requires the student to create cart data that is to be accessed from two different html pages, the student will need to utilise local storage correctly.

Since the student states that adding items into the cart is working, my first thought is that there would be an error in their code dealing with one or a combination of the following:

- The cart function and the way that items from the form capture are being added to it.
- The way that the cart and its content are being saved in local storage.
- How the locally stored cart and contents are retrieved and displayed.

I would first ask the student to run their code and check to make sure that the console isn't giving us any clues through errors or warnings. I would also ask that they investigate what is actually being saved into local storage via the Inspect/Application tab.

Investigating these areas should help direct the student to the areas of code that should be reviewed.

If the item data appears correctly in local storage, then I would encourage the student to review their code for storing the data and then review their code for retrieving it from storage. I would also remind the student that local storage is using key value pairs and for successful storage and for successful retrieval the keys used should be consistent throughout their code.

If the item data does not appear correctly in local storage, I would advise the student to review the code in the cart constructor function and the code responsible for pushing items from the user form into it. I would suggest that they make sure that all parameters, properties and keys used are consistent when populating their cart array with items.

Have best practices been followed?

The student in the example has adhered to best practices well and there are only a few points that I would discuss with them.

- They have included "use strict" in their app.js file which is great but they should also include it in their other .js files as a matter of good practice.
- The student has not included data validation for the item form and it is possible to enter a zero/negative quantity. When capturing data from a user, validation and error handling should always be a part of the workflow.
- I would advise that I personally found it useful to add code for error catching when saving and retrieving from local storage and have made this part of my own best practice. This may have been useful to the student in the above situation.
- Even though the student was instructed to leave the HTML as they found it I would ask them if there is anything they would have added if permitted. Ideally the HTML files would have <meta> tags in the head (charset/viewport config etc).

At this point I have spent the allocated 20 minutes on this task but have points to discuss further regarding ways in which the task can be expanded and some small issues I have with the general codebase.