Day 06 – Exercises – 10/10/23

Just to note that there were no Day05 exercises. I'll include them today.

The Modal/Showcase Modal exercises are quite challenging, so I would leave them to last. Focus on Task 01 & 02.

I will push the code for Tasks 01 & 02 tomorrow as solutions.

Task 01 – Cookie/html5 local storage:

The company would like to use a cookie/html5 local storage variable to remember customers. They would like a simple greeting such as "Hello XXX" to be displayed on the page for returning or current users. Implement a suitable client side script to allow for this feature

Pseudocode

We need some code to try to load the user name from local storage.

If the value does not exist, then we need the user to register their name. We need an input box, and button, with some code to handle the registration process. Don't forget to save the user name to local storage.

If the value does exist, display the user name with a nice message, and a button allowing the user to logout.

When the user logs out, remove the user name from local storage.

Enhancements

Replace the user name value with a user object.

Create a User() constructor function, to create a user object….name & age properties, or something similar.

Input fields for each property – name & age. Use inputs to create the object, and save the object to local storage. You will need to use JSON.stringify().

If the object exists in local stirage. Display the data, along with logout button. If the user object does not exist, call the register function, to display the input fields.

One final exercise might be to add 2 buttons to the page, to create data, and to read data from local storage. In this case we will store an array of objects. Again we will need JSON.stringify() and JSON.parse().

Task 02 – Scroll Top

Some of the webpages are getting very long. To increase usability and to accommodate mobile layout also, add a scroll/slide button to the page that appears after one scroll length of the page and when clicked the user is brought back to the top of the page. Implement a suitable client side script to allow for this feature.

Pseudocode

You can use w3schools as a source for a solution to this problem. Or any other suitable web resource.

Make sure you modify the code to suit your own coding style.

Ensure you use the more modern features – let/const v var, arrow functions, addEventListener instead of onclick etc.

Try to create it as a module, which can be used on any website. You should probably generate the button and the CSS from inside the module. Consider using the css module from an earlier task.

Task 03 – Popup/Modal Box

The company has a special offer file which they can edit and upload as they wish. However, this is currently only available by email request from the customer. The company would like a button on the website which displays current special offers on request from the user in a set dimension window. Implement a suitable client side script to allow for this feature.

This code has already been pushed to GitHub as Task08 – Modal, and Task 09 – Showcase-Modal. However, the code is not very well behaved. Explore the code base and see if you can improve the code stability, and visual appearance.