Assignment 5 – Web HTML and CSS Prototypes

Assigned: Wednesday, September 23, 2020
Due: Sunday, October 11, 2020 at 11:59 pm

Learning Goals

- Get more practice with HTML and CSS
- How to explain your prototype in a simple and clear way

To Do

- This is an **individual** assignment.
- Do a heuristic evaluation on your previous design. Find 3 to 5 UI bugs and fix those.
- You will create a web HTML / CSS prototype based on your previous work in Assignment 2 and 3, for your hypothetical client. You can iterate on your design from the previous homework based on feedback from user testing or ideas from other students, but this is not required.

HTML (18 pts total)

1. Create HTML files for each of the 3 required pages:
    a. **(3 pts)** The *home page*
    b. **(3 pts)** The *product browsing page* that shows the variety of items the store has
    c. **(3 pts)** The *product detail page* (**pick 1** of the client's products, and create a detail page for just that product. Make sure to show in the detail page the options that can be used on that product, i.e. color or size. Note: They do not need to be interactive, static HTML and CSS is ok for this assignment)
2. **(3 pts)** From the *home page*, the other 2 pages should be reachable with an **<a href=...>** tag link (within some N number of steps).
3. **(3 pts)** 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.
4. **(3 pts)** Indent and comment your code; follow the HTML style guides.

CSS (6 pts total)

5. **(2 pts)** Create and include at least 1 CSS file.
6. **(2 pts)** Make sure the CSS file is well formatted and use the CSS validator to validate your CSS file.
7. **(2 pts)** Indent, comment and follow the CSS style guides.

Both HTML + CSS (5 pts total)

8. **(5 pts)** These web prototypes should look as close to your high-fidelity digital mockup as possible. Certainly, you should implement in your web prototype what changes are necessary based on the heuristic evaluation (above).
9. **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).

10. Please cite any external resources you use.

Reflection (14 pts)

- The reflection should be 2-3 pages total
- **(3 pts)** Discuss 3 to 5 user interface bugs you found in your heuristic evaluation. Be sure to include your design for fixing those bugs, annotated screenshots are ok.
- **(3 pts)** What challenges or bugs did you encounter in the process of implementation, and how did you overcome the challenges?
- **(3 pts)** How is the brand identity of your client reflected through your design choices? What kind of look and feel did you design for them and why?
- **(5 pts)** Naming, grammar, legibility, and general presentation style.

Submission

1. Create a **public repo** on **GitHub** and ensure that the repo is hosted as a live site on **GitHub Pages**. You will use this repository to submit your following programming assignments this semester.
2. Go to https://pages.github.com/ for instructions on how to create a Github page.
    a. We recommend that you follow the instructions for creating a Project Site where you are "starting from scratch." Note that this allows you to enable Github Pages for a repository (even if you have already added content to it) through the repo's settings page, as indicated in step 4.
3. Create a new folder and call it *homework_5*.
4. You should include all the files required in this write up in that folder.
    a. HTML, CSS files.
    b. Reflection file. The reflection should be a pdf file. It should be named as "reflection.pdf".
5. Always (for every change, big or small) do a:
    a. git add -A (or git add --all, which means staging all new changes for this commit)
    b. git commit -m "Please write a message that makes sense here; it is good practice"
    c. git push origin master
6. Within your Reflection PDF, include the following **two** links at the top of your file *(please double check that these links are working within your submission!)*:
    a. A link to your live version of the site hosted on Github pages
        i. This link will look something like https://jcambre.github.io/PUI2020/homework_5/
    b. A link to the repository where the code is hosted
        i. This link will look something like https://github.com/jcambre/PUI2020/tree/master/homework_5
7. Submit the reflection PDF which includes those two links to Canvas

8. Deadline for the assignment is at the top of this document. We will count as your final submission the last **git commit** before that time. Anything committed after that date and time will be counted as late submission.

★ Bonus (maximum 5 pts total)

- Prototype with HTML and CSS additional site pages or add product detail pages for more than one product item.
    - Please include a **README.txt** file under the *homework_5* folder clarifying what **extra** work you did so that we know. Otherwise, there will not be any bonus points added.