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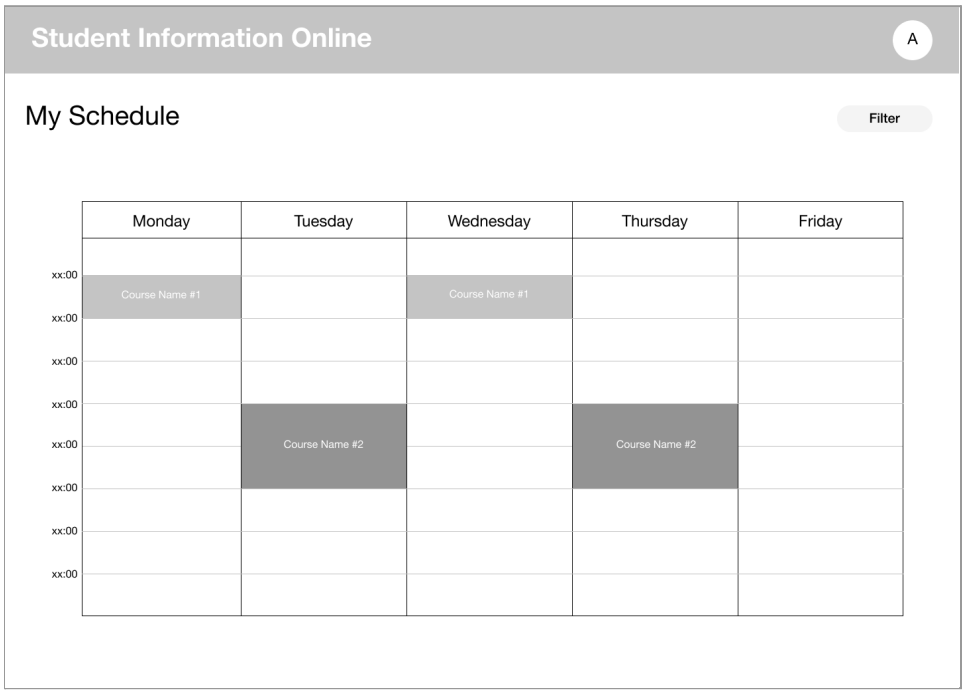
Assignment 6A: Adding Functionality to a Website with JavaScript
Chosen Interface : Course Registration Site (SIO)

GitHub Repository:
https://github.com/anjalikanodia/anjalik_pui_hw5_spring_2022/tree/homework_6a/homework_6
Hosted Website: https://anjalikanodia.github.io

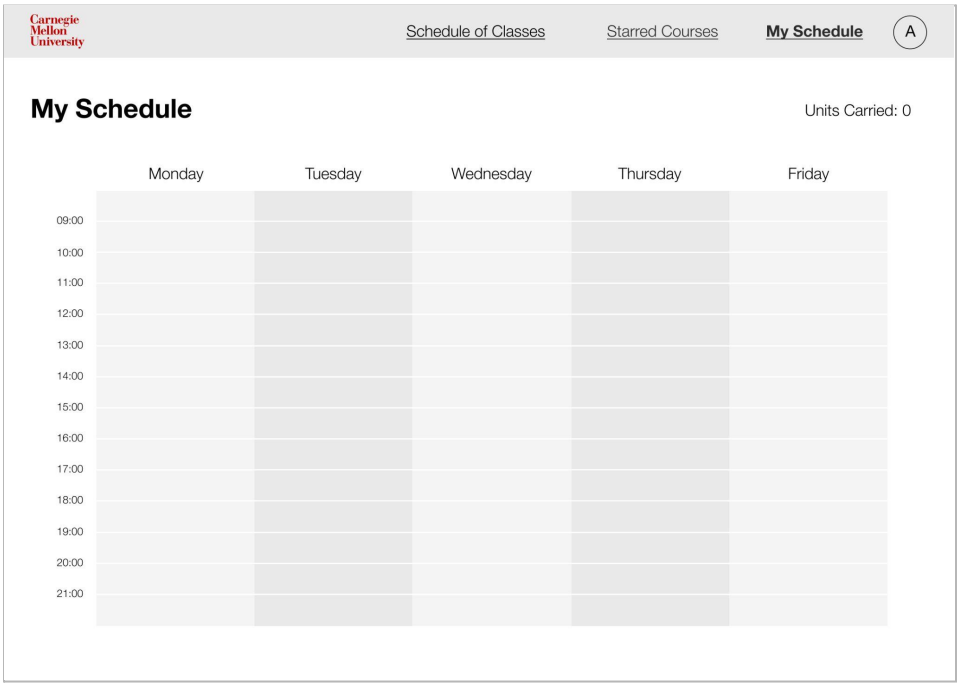
Part 1: Figma Prototype of Schedule (Cart) Page
For this assignment, I designed the 'My Schedule' page, which is the equivalent of the cart page on an e-commerce website.

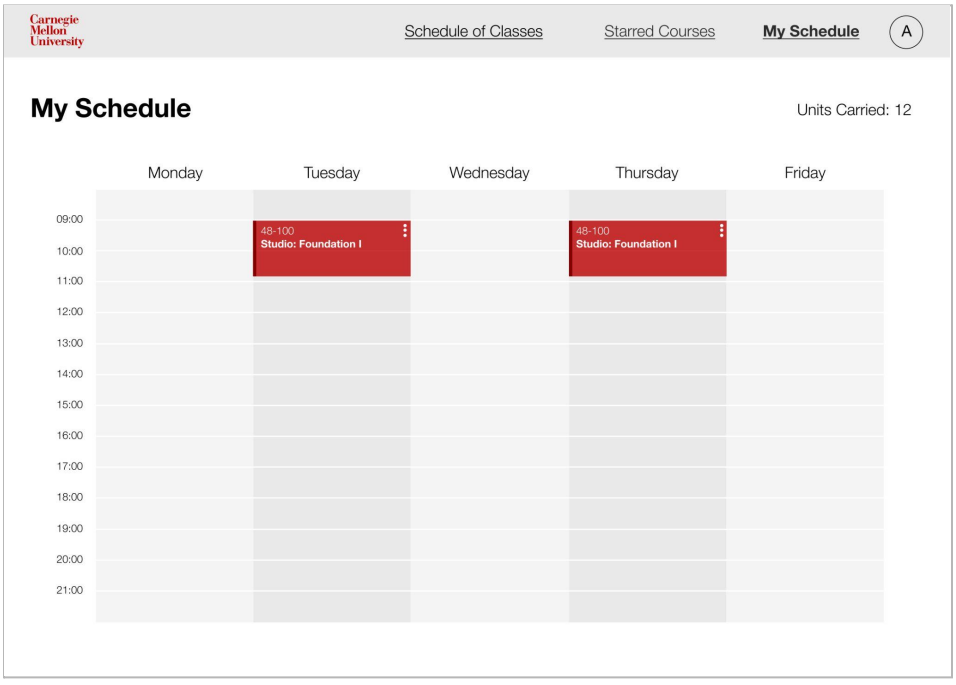
Low-Fidelity Prototype
I had not prototyped this page at any level of fidelity in the past. At the low-fidelity level, I stuck to grayscale and designed a minimal table. The UI of Apple's Calendar Application was my reference when thinking about how the courses would be laid out on a weekly schedule. The intent was for the courses to be like cards that are visually more dominant than the skeleton of the table itself. (*For a more detailed view, see Figma File > HW 2 Low-Fi Prototypes > Box labeled 'Assignment 6A')*



High-Fidelity Prototype
I built on my low-fidelity sketch and refined the visuals of the Schedule page. I stuck with my initial intent of a minimal skeleton for the calendar and contrasting course cards. I designed the high-fidelity prototype in alignment with the color palette and minimal aesthetic of the rest of the

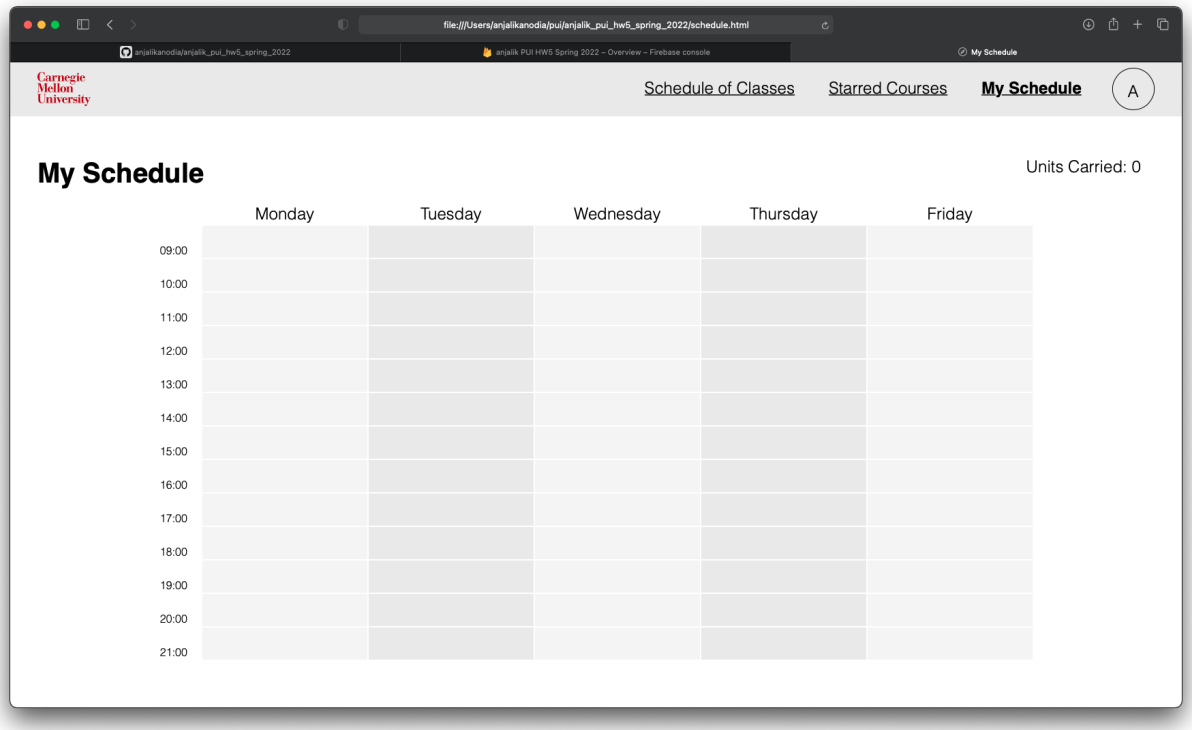
interface - as established in Assignment 5. Below are 2 versions of the My Schedule Page - one when the schedule is empty and one when there is a course in the schedule. Similar to the rest of the interface, red is used to draw attention or underscore the most important information on the page. In the schedule, the course blocks are indicated in shades of red. (*For a more detailed view, see Figma File > HW 3 High-Fi Prototype > Box labeled 'Assignment 6A')*





Part 2: Building out Cart Page in HTML + CSS

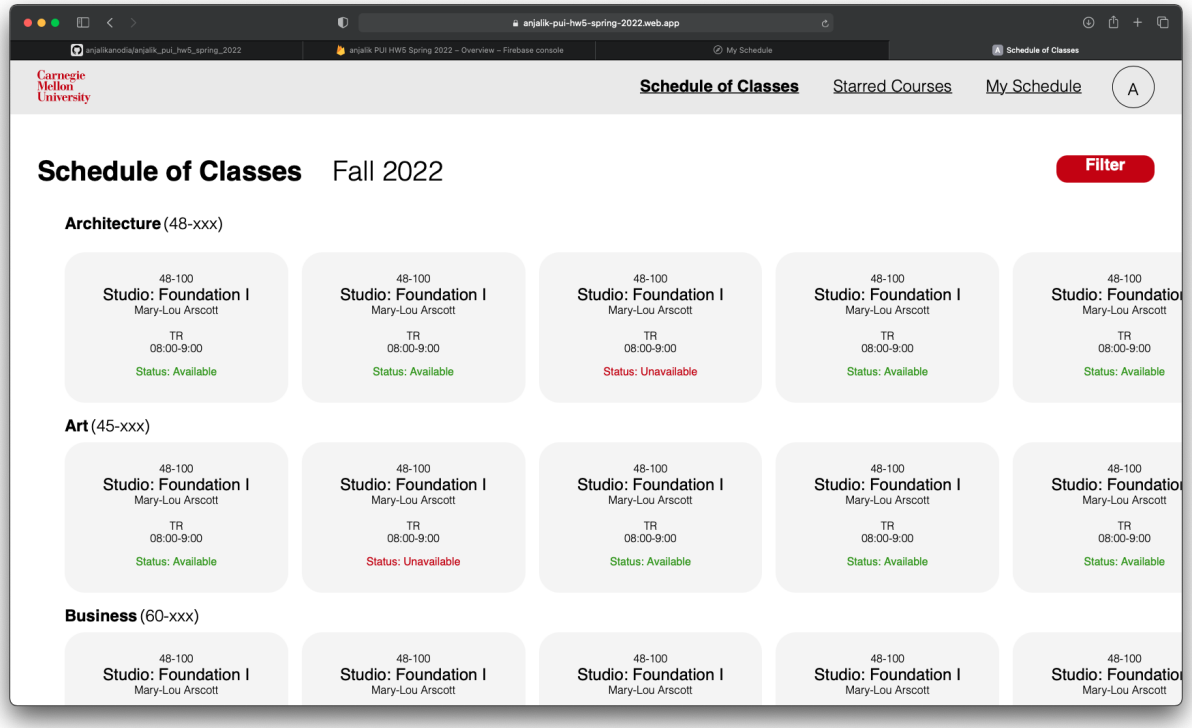
For Assignment 6A, I built out a blank schedule page using a table in HTML. Overall, I did not run into issues doing this, especially since the CodeCademy tutorials at the beginning walked us through how to create and style a table. I was able to visually match my Figma prototype and was satisfied with the output. For reference, below is how the page I built renders in my browser.



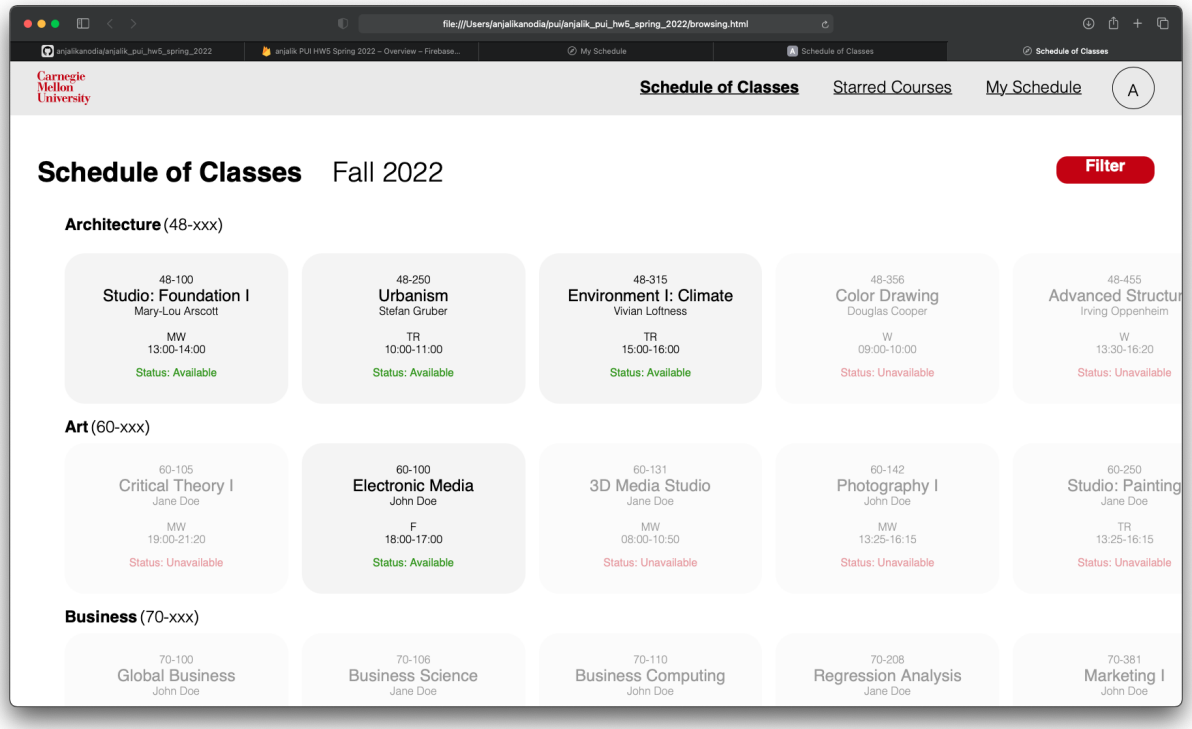
Part 3: Extra HTML + CSS Modifications

Looking ahead at adding functionality to my website using JavaScript, I planned to modify the information on the description page (course code, title, instructor, and description) based on the card the user clicked on the browsing page. However, since the browsing page was coded using vanilla HTML only, it was not reasonable to implement this functionality for every single course. Thus, I modified the browsing page such that only some of the courses were clickable. The status of these courses was indicated as ‘Available’ in green. For the others, I changed the status to ‘Unavailable’ in red and reduced their opacity to suggest that they could not be clicked, so that when a user would interact with my website in the future, they would not try to click on a course for which JavaScript functionality was not implemented. Below is a before and after of the Browsing Page.

Before



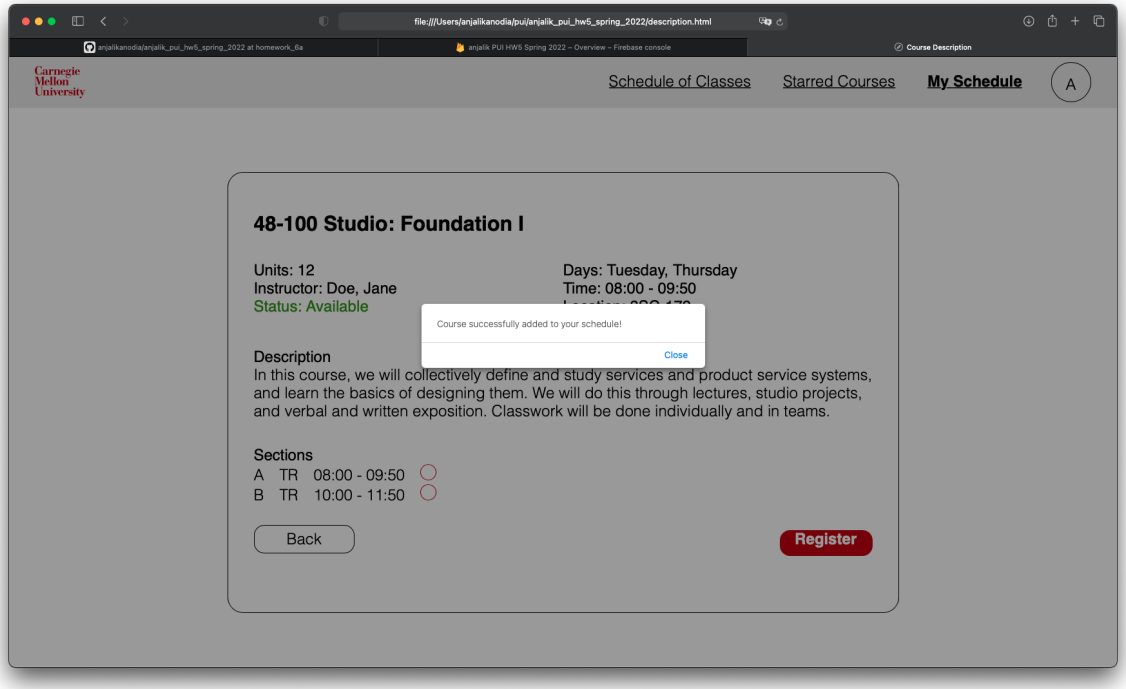
After



Part 3: Adding JavaScript Functionality

a. **Changing Information on Description Page based on which Course Card is Clicked**
   Using JavaScript, I changed the course code, name, instructor, and description on the Course Description page depending on which course card the user clicks. This was the key JavaScript functionality I implemented for Assignment 6A.

b. **Visual Indication of Items in Cart**
   Since a Course Schedule page is different from a cart on an e-commerce website, a visual indication in the navigation bar was not reasonable. Thus, I modified this prompt to use JavaScript to add feedback confirming registration. When a user clicks 'Register' on the course description page, a window alert appears as a visual indication that the course was successfully added to their schedule.



Part 4: Reflection

[not specified in assignment description but I thought it was important to include this]

As someone who has never coded in JavaScript before, I found this assignment very challenging. In labs, we had not gone over dynamically changing content on a linked/new HTML page before this assignment was due, and it was the primary functionality I was trying to

implement. Having had experience with Python before, my workflow included thinking through the logic in terms of Python logic and then trying to implement it in JavaScript using JS syntax. Local storage was key in accomplishing what I wanted to. With help from my TA Vikram and spending quite some time testing short pieces of code, I was able to get this to work.