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Class: COP 3813

Assignment: Project 4

### **Contents:**

In the .zip folder, there is:

- Content file (index.html)
- Assets folder which contains:
  - CSS base stylesheet with my own personal tweaks
  - Images related to the background image and custom SVG from template
  - 2 JS files – main.js from template and game.js for TicTacToe game.
  - Vendor files imported from the template
- One screenshot of the website in a web browser (p4 screenshot)
- This file

### **Explanation:**

For this project, the purpose was to use a JS + jQuery template of a TicTacToe game, incorporate it into a fully operational web page, and modify some elements to improve aesthetics / functionality. Here was my procedure.

I started by trying to understand the code for jQuery. While the syntax made sense for the most part, the integration of nested loops, arrays of jQuery elements, and how the function calls operated were a little disorienting. Overall though, with the use of comments, I saw how the code made sense.

After understanding the code, I began to search for a template. This took about 30 minutes to find a suitable template. However, the template that I liked was part of an entire website, including links to many other pages, tons of custom elements, and the like. I spent a

large amount of time deleting many elements. Finally, I had just the hero page left remaining with an appearance that I liked.

Next, I encountered my main difficulty with this assignment. I brought in the TicTacToe template, saved as game.js. However, it would not load. After about an hour or so of troubleshooting, I realized that the link to the source file was not enough. Just like CSS, I needed to import jQuery in the header setting. Then, the div element containing the TicTacToe board loaded. However, my Bootstrap template was hiding the inner row and column lines of the board. Next, I proceeded to extensively troubleshoot the possible causes of this. I tried many things, because I did not know at this time that the Bootstrap template was hiding these elements. I inspected the base CSS file, looked through the bootstrap file and tried to make alterations, removed the background image, and googled for possible solutions for about 2 hours. Then, finally, when I commented out the Bootstrap template, the page looked horrible but the grid lines then appeared. Now that I knew what the problem was, I researched the solution. While I could have tried to use the newly learned jQuery to change the CSS, I found that it was easiest at this time to just add in a few lines of CSS to the base file. I overwrote the template by changing how the table, tr, and td elements were defined in the CSS file. Finally, the lines showed.

Finally, I made some tweaks by adding in custom alert prompts, changing the size of the tr and td elements in the game.js file so that it was appropriate for the webpage, and changing the colors of the x's and o's to match other elements.

All in all, the largest portion of my struggle with this assignment was not with JS and jQuery, but with having invested a large portion of work on a template that had unforeseen consequences. At that point, I possibly should have selected a new template, but instead made it work. There aren't that many visually appealing templates, and this was the one that I wanted. I can see the immense possibilities of using JS, jQuery, CSS and HTML in unison. It gives me a new perspective on the amount of work that goes into being a web developer.