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COSC212 Assignment 1

JSHint:

I chose JSHint for my JavaScript validation:

- Bitwise: I chose bitwise as I didn't need to use any bitwise operators and therefore wanted JSHint to warn me if I did.
- Curly brackets: I used many if and for loops through the assignment. Therefore I thought that curly brackets were a necessity for my project. Without curly brackets my program could have easily crashed.
- Unsafe comparisons: I chose this option cause I had a lot of statements within my JavaScript files where I was comparing items. This was a good option to use as it meant that I would be using the correct comparison for each statement.
- Empty blocks: I wanted to check against empty blocks as these have the ability of crashing JavaScript.
- Variable undefined: I wanted to check against undefined variables as they are pointless and also take up more memory. Also it is good to check whether there is a variable not being assigned properly.

Environments for JSHint:

- JQuery: I used JQuery very frequently throughout my assignment therefore found it useful to have the JQuery environment turn on.
- Browser: I was using browsers to test my assignment so therefore tick this item.
- Development: Although recommended to have turned off, I often used console.log and alerts throughout the development of my assignment, therefore had the development environment operator turned on.

JSHint Errors:

Throughout my assignment I had one error than made multiple appearances in my JavaScript files. This error was to do with my Cookie. The error was saying that my cookie was undefined. I believe the reason was that locally, JSHint could not find it to be defined as the Cookie worked over a server, therefore the error messaged appeared.

Testing:

While developing my assignment testing was most likely the part that took the most time overall. Throughout the development process with my JavaScript I constantly was using the development statements such as alert and console.log to test for things such as output, seeing if something existed and also whether certain loops and functions were hitting correctly. This was useful as there is no real other was of testing for problem other than appending output to the HTML. Another source of

testing was the validation JavaScript file which ran test function to see whether the correct input was getting input into the admin page. This validation file meant that for input that could be dangerous or incorrect could not be entered preventing any most problems. Also for user input this meant that if incorrect input was entered error messages would display with the correct solution. Another source of testing was getting a friend to try break the website. With someone else testing the website it meant that the real world test from someone that didn't know my system would be able to find errors. This was a good source of testing and helped me find errors that I didn't know that existed. At the end I validated all of my code to ensure no problems may occur in the future. I used W3C to validate both my HTML files and my CSS file. This was useful as it meant I knew that according to W3C my HTML and CSS was clean.

Outstanding problems:

The one major outstanding problem was that my ranked table was not entirely finished. After spending hours of trying to get it to work each way I tried got me no closer. The way I was attempting to do this was have all the teams in a array, and also all the matches in objects that would then be put into a array. What I was trying to do was extract the information from the object and put them into a new team object where the correct details would accumulate. I got to the point where all the teams were in a team object in an array, but I could not find a way to merge all the results in the objects. In the end I just ended up displaying all the teams with the result from each game on the table, this meant that there were many duplicates and also that no ranking system could be put in place. Overall with a little more experience and research on the objects I could have learnt how to process these results.