

I initially thought of using a hamburger menu¹. However, I decided to change this as I thought that having a menu system that just displayed at the top would be better as the user would not have to click on a button each time to access the menu. I also added a background around the main area of the web page and tinted the background as I thought these would make the website look better. I also used a blue background, instead of the image for the quiz page.

I did not use HTML or CSS templates. I also did not use CSS reset or normalize because I thought these were unnecessary as the default styles would be overwritten by mine. I organized my menu in a way where the most important ones were at the beginning. It was essentially organized by most important to least important. Although, the accessibility statement is one of the most important things in a website, I did not want to put it before the others as I thought it would disrupt the flow of the menu system. The accessibility statement is not applicable to everyone, whereas the rest of the pages are. I also did not use any JavaScript because I felt that it was not necessary as it would increase the load time of the website. It is disabled (usually instead of the CSS) if the Wi-Fi speed is too low. So, I thought, it wasn't very important.

Optimization was taken into consideration. The website is quite simple. So, it did not take very long to load. For example, the quiz page only took 40ms to load and it contained the greatest number of images. All pages contain a background image, which also did not take very long to load. There were no transitions or animations in any of the pages. The quiz page took the longest to load. This is mainly because it contained 6 images including the background. So, overall optimization was not a big problem.

I used several different ways to debug my code. To start with, I was struggling to align the image properly when making the student experience page. So, I commented out the text and then worked with the image only. This helped me to work out the sizing of the image and enabled me to figure out how to align the image properly. I also used HTML and CSS validators to debug my code. The result is shown below² (this reference shows the HTML and CSS checker I used).

¹ En.wikipedia.org. (2019). *Hamburger button*. [online] Available at: https://en.wikipedia.org/wiki/Hamburger_button [Accessed 2 Dec. 2019].

² Validator.w3.org. (2019). *Ready to check - Nu Html Checker*. [online] Available at: <https://validator.w3.org/nu/#file> [Accessed 3 Dec. 2019].

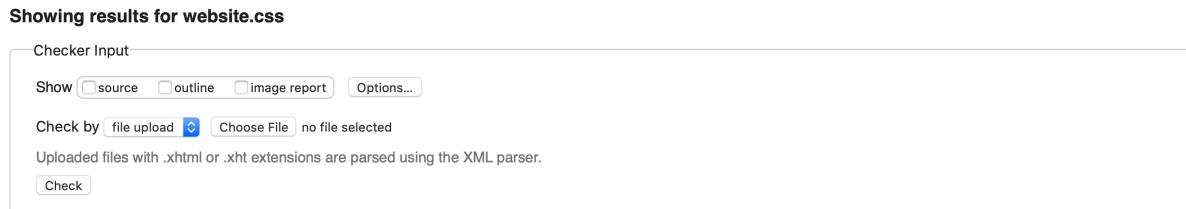


Figure 1- CSS Validation

As you can see from the result, the CSS file had no errors in it.



Figure 2 HTML validation

For most of my HTML files, errors like the above showed up. However, these errors don't make sense. Therefore, there is probably a problem when the validator parses the file.

For testing, I tested the website on Internet explorer, Google Chrome and Firefox. The webpage looked similar on all the above-mentioned browsers. The home page on Google Chrome is shown below

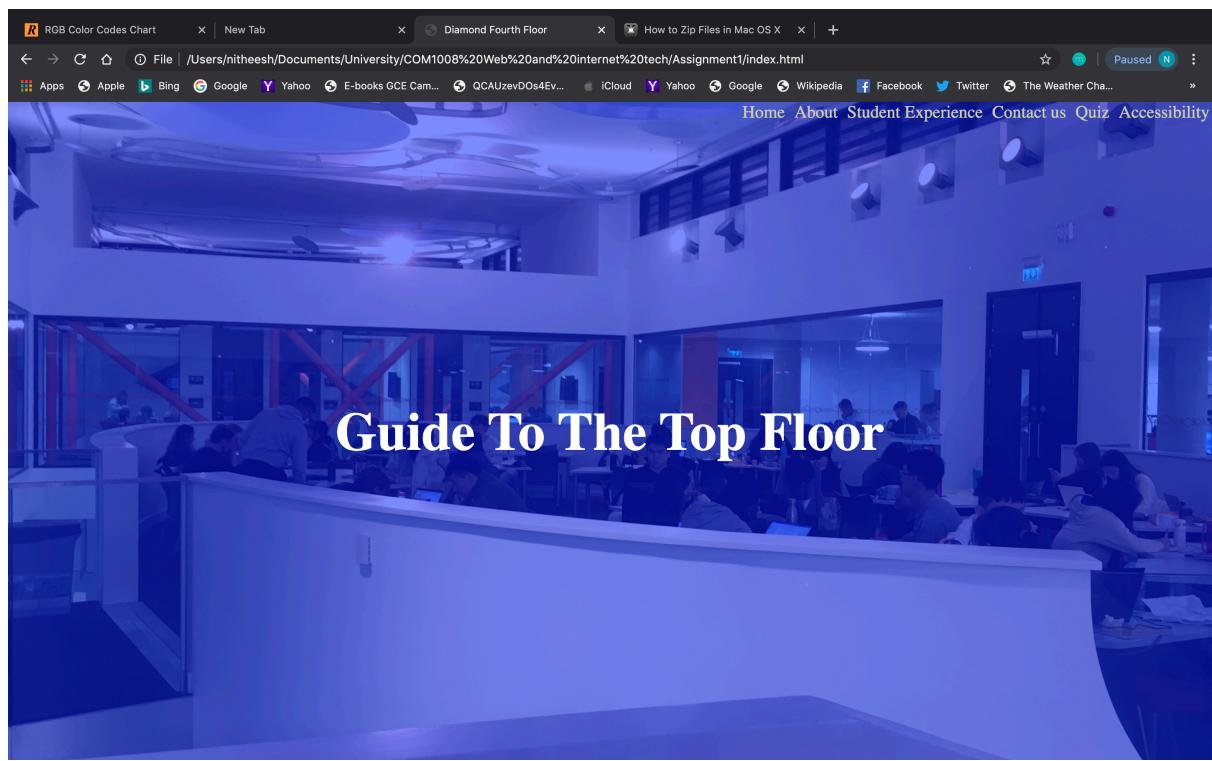


Figure 3- Home page on chrome

The home page on Firefox is shown below

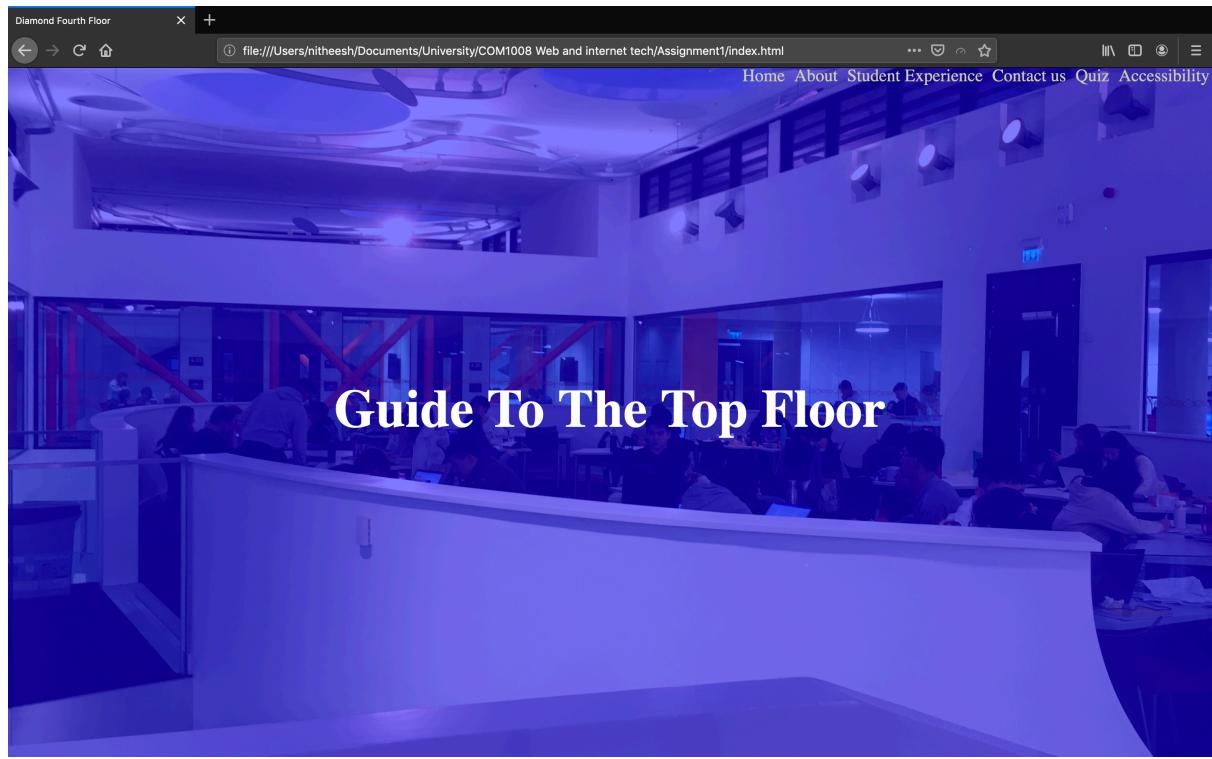


Figure 4- Home page on Firefox

It can clearly be seen that the home pages look the same. It also looks the same on Internet explorer. The differences can only be seen in the quiz page and the student experience page. This is mainly because of the different default styles for the flexboxes that I used on these pages. I also tested the website on laptops, desktops and phones. The Home page on the iPhone X is shown below.

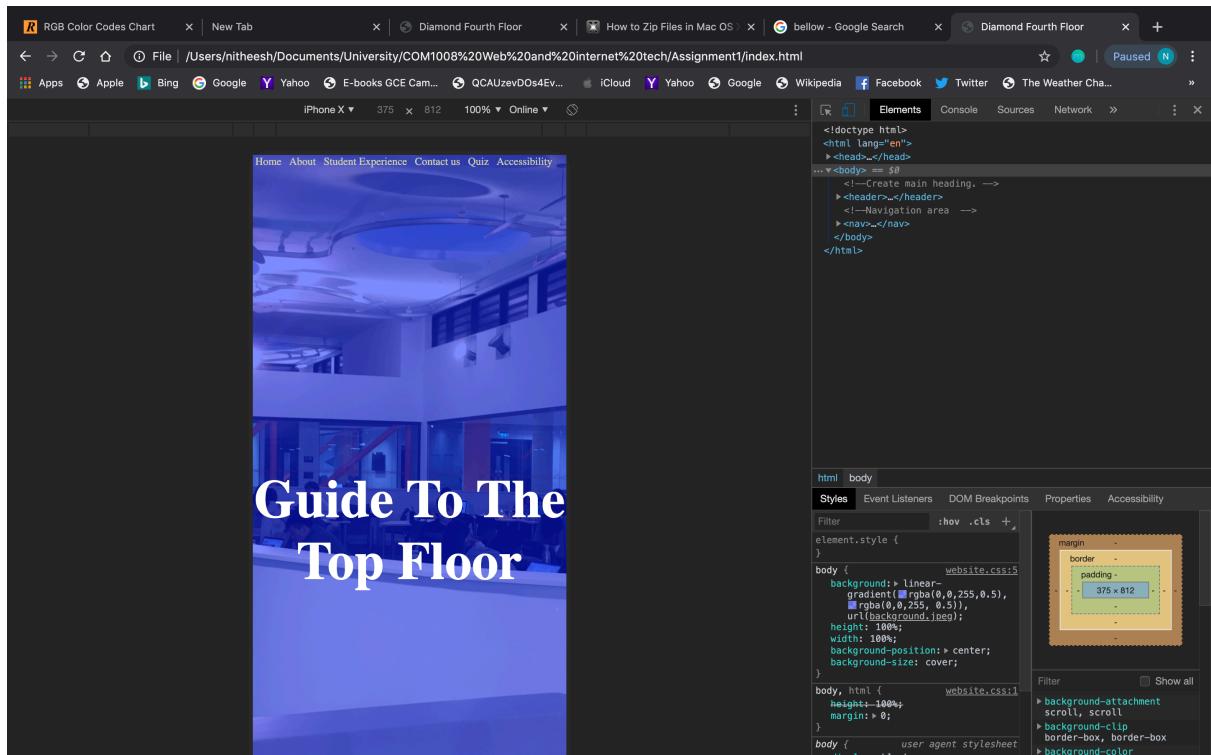


Figure 5 Home page on iPhone X