Reflective Report

As stated in my pitch the main focus of my website was to cover CSS content and the forms section of HTML. These were the parts of the course I found the hardest so felt that by writing my own guide to learning them it would enhance my knowledge greatly. I started with the basics of CSS and then then gradually moved onto the more complex sections.

Key Features

My website has a drop-down navigation bar that takes the user to all the different sections on each page and appears on every page. I have also added a night mode which changes the colour scheme all the entire page to make my website easier to read in low light environments. I did this by changing the background colour of the page and then also changing the text colour. Also, any images of code that normally was black text on a white background I replaced with different images that have a dark background. The text on my website can be increased or decreased in size to make it easier to read as well. Finally, I added a quiz at the end to test the user on their knowledge of the content that my website has covered. The quiz has questions on all the topics and then when they submit their answers it tells them their score.

My website uses HTML5, CSS 3 and JavaScript. I have used all three that we were taught in lectures to make my website as good as it can be and to add as much functionality as I could. I used the latest version of each language so that I could take advantage of all the latest features and so my website would not become outdated too quickly. I used the lecture notes provided to us and also a few other online sources to help explain certain methods which I will talk about later.

Extra Resources

JavaScript is something that I struggled to understand so in order to add the night mode feature I needed some help. I found [this](https://codepen.io/Addiosamigo/pen/lArin) was very useful in showing the basics of doing a night mode but I needed to heavily adapt it to change all the element in my website, especially the navigation bar. Also, with the quiz I had a few issues that I needed to lookup. Firstly when the use submitted their answers I did not want a new window to open so I used [this](https://stackoverflow.com/questions/25983603/how-to-submit-html-form-without-redirection) page on stack overflow. Secondly I was struggling to get the users selection so I got some inspiration from [this](https://stackoverflow.com/questions/3547035/javascript-getting-html-form-values) site.

Successes and Issues

Firstly, my biggest struggle was getting the drop-down navigation bar to work. I was able to do a navigation bar relatively easily but adding the drop-down feature for all the page sections was difficult. After lots of experimenting with various position and display settings I eventually got it to work. I would have liked to have had it always appear at the top of the page even when you scroll down but unfortunately I could not make this work with the drop-down feature so it just sits at the top of the page however I am very happy with the end result especially after I added the night-mode to it. I have always struggled to fully understand the positioning rules and still struggled with placing some of the images and making them stay in the correct position when the window size is changed. If I was to do this piece of coursework again, I would go over this aspect of the module again before starting so that I was able to correctly place each element on the page without issue. I had a few issues creating my quiz but eventually it turned out very well and is very easy to use but if I was doing it again I would add a feature that told the user which questions they got correct however when creating the page I found I did not have enough time to complete this as I could not see an obvious solution to implement this feature. When writing my pitch, I was stuck for ideas when listing features and ended up saying I would add a feature to enlarge all the content on the screen completely forgetting that the user can simply zoom in. I did add a feature to enlarge all the text as I said I would do it but feel this feature is relatively useless.

I feel that my final product is to a high standard and could be used to learn CSS and HTML forms and that I stuck to my pitch closely. I incorporated all the features I said I would and organised and presented my content as stated in my pitch by having a home page and then multiple other pages to teach the user. I have a navigation bar at the top and at the bottom links to the homepage and the next and previous pages. For each rule my websites talks about I have included examples to show how they can be used as well.