I spent about 4 hours on this this week, and that doesn't include the time I spent on homework.

I completed a simple website project on health software, focusing on showing how to use Sass for styling and automating the workflow through Gulp. This project not only gave me a deeper understanding of the benefits and applications of Sass, but also enhanced my skills in web design and development.

Firstly, I created the basic file structure of the project, including HTML files, SCSS files and Gulp configuration files. During the initialisation phase of the project, I created multiple pages, including a home page, an about page and a contact page, and added a navigation bar so that users could easily switch between pages. During this process, I used Sass's variable, mixins, nesting and inheritance features to ensure reusability and maintainability of the code. For example, by defining colour and font variables, I could easily apply consistent styling across the site without having to rewrite the same CSS code.

Next, I configured Gulp to automate the compilation of Sass files. The use of Gulp has greatly improved development efficiency because it monitors changes to SCSS files and automatically compiles them into CSS files as they are updated. This means that I no longer need to manually compile Sass, greatly reducing the number of tedious steps in the development process. In this way, I was able to focus more on design and feature implementation without having to worry about synchronising style files.

As the project progressed, I also encountered some challenges. For example, when navigating to the project directory, I encountered an issue with the wrong path, which I was able to resolve by double-checking and confirming the correct path. Also, initially the styles were not being applied to the page correctly, I was able to resolve the issue of the styles not being updated by clearing the browser cache and making sure the Gulp task was running correctly.

This project made me realise the importance of Sass and automation tools in front-end development. Through this exercise, I not only improved my technical skills, but also enhanced my project management and problem solving skills.