Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills: Front End Development

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LEARNING DIARY, FRONT-END MODULE

Date: 22.01.2023

Activity: Video Portfolio Website 1 and 2

Learning outcome: Learned how to set up SCSS and use variables as well as proper syntax.

Date: 23.01.2023

Activity: Video Portfolio Website 3 and 4

Learning outcome: Learned how to use CSS transforms, SCSS nesting and for loops.

Date: 24.01.2023

Activity: Video Portfolio Website 5, 6 and 7

Learning outcome: Learned how to use grid and grid templates.

**LEARNING DIARY**

**22.1.2023**  
I watched the first two videos of the creating a modern responsive portfolio website and while I have a lot of experience with CSS and HTML, I had never used SCSS before. I learned how to install SCSS and set up my Sublime Text to handle SCSS code. I decided to use Sublime Text because I use VS Code for C++ and I like to keep my C++ development environment clean. Looking forward to the next few videos and learning more about SCSS.

**23.1.2023**

Decided to read the SCSS documentation to learn the concepts a little better. I really liked the possibility of using a for loop in CSS to loop through child elements one by one. Additionally, the tutorial did a great job at explaining the possibilities of CSS transforms. I also learned a lot from setting up the media queries in SCSS as well as using partials. I have gone through part three and four of the tutorial today and while I have worked with JS, CSS and HTML for years I still ended up learning a few neat tricks like the beautiful slide in, slide out animations.

**24.1.2023**

I finished the last three parts of the tutorial and learned how to setup grid and use media queries to make the grid responsive across different screen sizes. I was already familiar with flexbox, which is great for horizontal content, but I have not used grid before. The takeaway is that grid is great when you must position content across multiple rows, i.e., the entire height of a page while flexbox is probably better to use for single row content.

Additionally, I also learned how to use a function to automatically change the colour of the text depending on the brightness of the background. I have run into this problem before myself and had to use JavaScript to solve the issue back then, but this SCSS solution is a lot easier and more elegant.

I personally did not know about the deployment to GitHub pages which was a nice addition to the tutorial and while it is only static pages without a frontend this is nevertheless good to know and excellent for something like a portfolio page.

**22.02.2023**

The past month I worked on the portfolio site while at the same time also working on the full stack course and I decided to take this portfolio project a little further than just Sass and JavaScript: I built the portfolio site with React, Sass and TypeScript. Due to the issues that GitHub pages has with react router I had to use the HashRouter instead of the BrowserRouter for the page routing but uploading it to GitHub worked out fine after a few hiccups (the dreaded white page problem). Overall, it was a great experience that taught me quite a lot even though I already have some experience with frontend design.