

Lappeenrannan teknillinen yliopisto
School of Business and Management

Software Development Skills

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**LEARNING DIARY, SOFTWARE DEVELOPMENT SKILLS:
FRONT-END 2022-23 MODULE**

LEARNING DIARY

22.12.2022

I started this course with pure excitement since I was always interested in web development. I had used WordPress a lot in my own projects and wanted to dig deeper and find out what really goes into the source code.

First, I set up the coding environment using VS Code, and npm (NodeJS). I found Live Server -plugin being very useful running the site locally. I also installed git for version control since my Windows 11 machine didn't have it already installed.

After the initial setup, I started watching a tutorial about introduction to workflow and sass. I learned to set up the sass environment in VS Code and got the idea of what a responsive sass distribution looks like. The animations and sleek design stuck in my mind.

After the introduction, I continued my studies by watching a tutorial on homepage and core Sass/CSS that taught a lot about the core principles of website development. I created the initial *index.html*-file and started coding. After the html setup, I switched to the *main.scss*-file to get the styling going on. During the process, I learned about fixed values and pseudo-classes using config-file for sass, nesting and more. Also, the third-party classes were a nice discovery allowing the most popular logos to be used in future development for example.

26.12.2022

Firstly, I committed the changes I made from last week and then I proceeded to watch a tutorial on creating menu buttons that rotate using JavaScript and CSS properties. It was intuitive learning about JavaScript's query selectors and other class methods. I learned that I could add attributes to my classes and that way set a specific state for the objects by utilizing functions. For changing variables, I needed to use the "let" type in order to make the site responsive. After messing with the sass menu button -config, I managed to get the animation working. Now when I clicked the menu button, 3 bars turned into a cross. It was easily done using *nth-child* -pseudo-method and transform properties.

27.12.2022

I started my day differently today by reflecting on what I've learned since I have been presented with a lot of new things. Then, I continued my learning experience by watching a tutorial on making the menu overlay for the website as well as making it responsive. I used animation and transform properties again to make the menu overlay slide smoothly to the screen by utilizing *translate3d*-method for example. After the menu overlay was done, I learned about media query Sass mixins. *_mobile.scss* -config file was great for that purpose. Every pixel size was covered making the site responsive.

29.12.2022

I watched tutorials on utilizing CSS Grid properties on html page layout. I found them very intuitive since the code formatting correlates directly on screen. I also learned that it is very easy to optimize grid template areas on different sized devices, hence making it easy to target responsiveness. Even more impressive was learning to utilize Flexbox on the contact page since no further modifications needed to be made in the area of responsiveness. Lastly, I learned how to deploy a website on multiple ways, for example using GitHub Pages and *gh-pages* -package or a remote server. This time I chose the simplest method of deploying on GitHub.

2.1.2023

I created a new repository on GitHub for the final project. I used a lot of the same pieces from the *front_end_course*-repository I pushed and deployed earlier last week. There was a lot of style changes and additional JavaScript-randomness using *Math.random*-function in order to add some life to the new website. It turned out to be a great looking site.