

Lappeenrannan teknillinen yliopisto
School of Engineering Sciences

Software Development Skills Front-End, Online course

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LEARNING DIARY, Front End MODULE

LEARNING DIARY

30.12.2024

I have gone through the Course overview, course information and became familiar with the steps I need to follow for completing this course. Even though I have previous experience in working with GitHub, I started with revising the concepts of GitHub commands. I have successfully set up the development environment. I had some trouble with the folders inside my git repository and I solved those problems by myself through troubleshooting. Finally, everything is working fine and I'm good to go.

By the way I have chosen vs code for my code editor as I'm familiar with it.

I have learned about the basics of html classes and how to style them using CSS. In CSS I learned a new thing which is declaring customized components to use as variables. Gone through the navbar design and successfully designed it according to the tutorial.

23.01.2025

After 3 weeks I started again. I almost forgot what I did last time. So, I revised the previous works and did it again in the same file. Learned a new concept on how to style the last item inside a group of items like flexbox or the CSS grid. Its called last child concept.

08.02.2025

I've started again after taking a gap. Previously, I just worked till the navbar design. So, today I started from where I left. It's called the Hero section of the whole project. The first thing I learned is about Rem which is a unit for the size of a window. 1 Rem equals 16 pixels. It's easier to define the size using Rem because it has a default size of 16 pixel, and it seemed clean to me. Then I learned all four combinations to define the margin for a window or a module. I learned this using ChatGPT because it's a little concept and it's quite convenient to use ChatGPT.

Next thing is the new function called Repeat which is used in CSS grid to equally share space between the grids. I finished the testimonial section.

One thing I realized was that I was able to connect how the mentor was connecting the class names of HTML sections with the CSS file.

09.02.2025

Today's part was easier as yesterday I was able to connect the class names of HTML with the CSS file.

First thing learned was nth child concept. It was like the last child concept I learned before but here I need to specify which child I was referring to.

Then I learned about the span feature inside a paragraph. Here I could use different designs of fonts inside a paragraph.

Then I learned something that works like an if else statement in CSS. Usually to indicate the classes and subclasses we use ".class name .subclass name". Here is a gap between those. But if there is no gap used it works like an if statement.

Learned about a concept author mentioned as specificity. Here in order to use a class as subheading the style module of that subheading must be below the heading's style module.

I could connect how the mentor was using the figma file to design the perfect spaces or margins in and between the modules.

10.02.2025

Today I've learned some javascript concepts. I learned how event-listener function works.

I learned how to use event listener function with .target function to get the class name of the HTML element. Also, I've used some if else statement although I'm familiar with these concepts. I've learned that 'document' is a global variable inside .js file that represents DOM. I've learned how to use queryselector function to select specific html element classes. Also how to get the parent class using .parentelement function. Moreover, I got my hands on the classList functions like toggle, add and remove.

It was fun to know how to get all the class names of the html elements in an array using queryselectorAll function and traverse the array using for loop.

14.02.2025

Today I learned about media queries. It is used for proper alignment of html element for different screen sizes. Basically its a CSS function where a parameter called max width needs to be specified.

Hamburger design was interesting because previously I thought these type of menu icons are imported externally or the function was prebuild. Here a little bit of javascript was used. Here one thing I noticed about CSS grid is that it is easier to change views from horizontal to vertical. I faced some difficulty while I was trying to deploy the website. It was showing page not found while I was loading the website. Later I found out that the index.html file needs to be in the root directory. As I created this project inside another folder in my git repository it didn't get

the index.html file. Later I copied the folder and created another git repository and successfully deployed the website.

Here is the link <https://lambent-empanada-ddff3a.netlify.app/>

Finally I've finished the modules for practice.

20.02.2025

It's the day I started my own project. I decided to create a website for a wedding photography firm. My friend owns it.

At first, I tried to design it myself, but later I found it difficult as only the design of the exercise was appearing in my mind. So, I decided to use the design of the exercise. But the contents and images were prepared and collected by me. Additionally, I took a color combination by searching it from google. These are the hex codes #F8F7F2, #FB3640, #22577A. I found the color combination quite charming and suitable for the website.

The navbar design was smooth as I've practiced it 2-3 times earlier. I've started adding utility classes that I learned from the exercise.

25.02.25

I started the hero section; I actually don't know why this section was called hero section. The heading and the text part was easy and simple. The problem began with the image. The image that was used in the exercise had a white background. So it was easy to use as the background of the container and the text was visible clearly. However, the image that I collected did not have such background. So, I tried different techniques to fix the problem. I tried to re edit the image 3 times. But It was not perfect like it was in the exercise.

I took some gap and started the video part.

In the exercise it was just a video thumbnail image. So I decided to add a real video but it was used from youtube by embedded link. I did some research in the internet about it and I used it. Here I faced some problem regarding the positioning of the video and size of the preview. Later I fixed it by troubleshooting several times.

I again started the hero image part and this time I fixed it perfectly. It was the change of image height the made it perfect.

27.02.2025

Started the testimonial part. It was easy for me because I've practiced CSS grid in the exercise and to me it was a special function to organize the elements to me. The texts and testimonial contents were written by me.

At this point I was quite flexible with using the utility classes and I loved it. Here I faced a problem regarding the background color of the container. Instead of white color I used a warm white color. So between the containers there was a gap visible. I tried several different things but it was still visible. Later I changed the background color of the whole body to that warm white color and the gap was gone. Later I modified the utility classes for backgrounds and it was easy to use later.

28.02.2025

For the FAQ section I designed the questions. Then added those. Here I faced problems regarding the javascript part. I learned that in `querySelector` function not only class names but also element name can be used. I was not aware of it before. I also cleared the concept of toggle. For the footer I designed a new white logo as I didn't have one. I faced some problems in aligning the social media icons with the newsletter card. I fixed it anyhow but it was not perfect. The footer was done but it was not perfect.

01.03.2025

I started designing the hamburger menu and it was done smoothly as it was same as the exercise. Then I started to add the media queries one by one. Here I faced some difficulty as previously I didn't practice it again. However, by testing the responsiveness according to the change of the screen size I was able to learn it again. I realized that the more I practise the more things become easy.

I fixed some issues on the footer. The last 3 cards of the footer were not aligned. Here CSS grid was used. I wanted to align the cards from the starting point. At first I tried using the `nth child` function but it didn't work for some reason. Later I added class names on those 3 cards and aligned them from the start position.

I started to design a new page that'll show some of the images as slideshow. Here I faced struggled the most as I had to learn some new concepts for smooth transitions of the images and I needed quite a good time learning it. Besides, the problem was with positioning the images and also using the position of the slide relative and absolute. As the images need to be stacked for slideshow, so I had to use absolute positioning and by changing the width and height of the slide I was able to fix it. But it took some time.

02.03.25

I finalized the image slideshow.

Then I went for media queries as I found some imperfections when I was changing display sizes. According to the display size I fixed the alignment and the positioning of the image slideshow.

Later I added the terms and conditions page. Here I've used ordered list and padding-left for better look of the list of terms and conditions. I made some improvement on the media queries. I've added an about us page. This was the last page that I've added. Here I've faced a problem with aligning the grid elements for the small screen sizes. It was not aligning in the center of the screen. Meanwhile I've deployed the website using netlify. I tested it in my phone. An anchor was not added for the about us option in the hamburger menu. I added that later. However, the alignment problem persists for the about us page.

Later fixed it by adding some paddings on the right side. Added a feature to close the hamburger menu if it is clicked outside the menu. Took help from google.

I think the website is done almost, I've learned a lot of things from it.
Here is the deployed website [Focus set shoot](#) .