Lappeenrannan teknillinen yliopisto

School of Business and Management

Software Development Skills

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LEARNING DIARY

SOFTWARE DEVELOPMENT SKILLS: FRONT-END 2021-22 MODULE

**LEARNING DIARY**

31.05.2022  
  
I have read the Course Overview and General Course Information section. I have got familiar with the main goal of the course, which is to find my passion as a software developer and create my own project. I decided to start with frontend module because it was the easiest part to start compared to full-stuck and mobile.

01.06.2022

I have already had installed the Git on my Desktop by another person, but I did not know what exactly was installed. That is why I just started from the scratch. I was not familiar with GitHub and version control, so I started from reading the article “Getting Started - Installing Git”. I google about the Xcode Command Line Tools for a Mac, and found out that there are three possible options:

1. install the full package, which requires about 40 Gb of space and suitable for Apple developers;
2. install Xcode Command Line Tools when triggered by a command. This option is much easier than first and requires about 1.2 Gb;
3. install Xcode Command Line Tools as part of a Homebrew installation. This option is the easiest.

The last two were highly recommended to use. Then I checked what is the difference between command line and Homebrew to chose the best option for me. Even though it says that Homebrew is the easiest way, I found it a bit more complicated, perhaps because the guidlines were too long to read. So I proceed with the installation of Xcode by command Prompt.

Then I have installed Git and checked its version. It is 2.30.1 (Apple Git-130).

02.06.2022

I have got familiar with the Sourcetree. To sign up for Bitbucket the Google account was used. Then I was confused between the Sourcetree, Bitbucket and Git. After googling and watching some videos on Youtube, I found out the difference.

Then I followed the tutorial and created my first ever repository in Bitbucket. I did my first commit.

03.06.2022

There were many code editors available for MacOS. I have chosen VS Code as the most widely used editor. I followed the instructions to set up VS Code. On the official VS Code website, I found the Introductory Videos that helped me to get started.

Then I went through the recommended website and added extensions which I found useful for coding.

10.06.2022

I have started watching the first video how to create a responsive portfolio website using new technologies. The initial tutorials in the Moodle section Environment Setup were slightly different from the video. But in the end, I managed to get started, even though some things did not go the same as on the video. The folder for css was not created as on the tutorial, so I started the project from the beginning. In addition, I had some errors in the Terminal in VS Code. There were about synchronizing. After disabling the extension Settings Sync, the unnecessary errors disappear.

Also, it turned out that I need to install Node.js, which was easy.

I have created the git repository and commit changes. All the changes are stored local. I opened the project in the browser and it worked perfectly.

15.06.2022

I started to watch second video about Homepage markup and the core Sass/CSS for the project.

Everything went smooth, apart from two problems.

1. A couple of times the website in Chrome did not update, while the changes were made in the code. I checked the code, saved again, but the pic remained the same. Then I found extra file package-lock.json in the folder node-modules. I deleted it, and it worked. Other time, the error was that I did not have id=bg-img in body iof index.html. Perhaps, I missed this part on the video. After adding this line to the code, the changes were made.
2. Other problem was with the config file. It turned out that instead of cutting the piece of code, I was discarding the changes. So I copied the incomplete code. Reading the error message in the terminal, I placed the error, and fixed it.

Another thing, the website fontawesome.com does not look the same as on the video, so I could not find the needed link. I simply copied it from the video, and it worked.

I learned about the variable, nesting, mixin and config.

16.06.2022

I started to watch third video about Rotating Menu Button.

The instructor had the same problem as I had before. His changes in code did not appear in the browser. He recommended to restart npm run sass and resaved everything. It helped him, but not to me, as again I faced this problem. I could not fix it. So, I just follow with the flow without seeing changes. After that I checked again, I tried to make other changes (like changing the color), and it did show. By checking file by file, I found a couple of different figures. After fixing everything worked.

I learned how to create menu button, and use JavaScript-code to make it rotating. I also learned about transition to move different objects, in particular in this project it were three lines changing to X.

Finally, I did commit to git. In the Terminal it shows that everything is created and saved, but I cannot see the new repository in github account online. Perhaps, need to pull requests. I will figure it out later.

20.06.2022

I started to watch fourth video how to create the menu overlay with the branding and navigation. It also shows how to add the media query Sass mixins to make the site responsive.

I did menu overlay to display it into two columns upon click on menu button. Also, I added photo, styles for displaying. Everything went smooth. All the changes were displayed on the browser. I committed the changes in code to git.

The instructor has again problem with displaying changes in the browser, and finally, he said the reason. When creating a new file, need to rerun npm run sass. So, then all the changes will be displayed automatically.

For the project so far I have done menu, overlay, homepage and responsiveness. In config file I can change the colours, images, opacity.

I did git commit in the end of this session.

21.06.2022

I started to watch the fifth video. In this video the instructor shows, how to create About page using CSS Grid with grid template areas to map out the layout. Also, he explains, how to add the Sass styling and make the page responsive.

I learned how to do sticky footer, how to make a grid on the page. I created different grids for different screen sizes. I also created a function to change the text color depending on the background color.

Everything went smooth. I commit the changes.

27.06.2022

I started to watch the sixth video. It was about creating the work and contact pages. It explained, how to use CSS Grid for the work and Flexbox for the contact.

For the work page I did responsive page, where the number of projects per line were changing depending on the display size. For responsiveness of Contact page wrap function was used.

I learnt how to create boxes, change their appearance on hover.

Everything went smooth. I commit the changes twice for each page.

05.07.2022

The last video is about deployment of the website in GitHub. As it was recommended to use Bitbucket. I created the depository there, but the instructor used GitHub. It cased me some problems and confusion. I watched videos on YouTube about the difference between Git, GitHub and Bitbucket. Then I watched another tutorial, how to move repository from Bitbucket to GitHub. At first import was failed for unknown reason. After restarting the process, the repository was moved successfully. From now, I will direct use GitHub repository.

I followed the instructions and deployed the website on GitHub Pages. However, it does not work. I tried to change some settings on GitHub, but everything I have got is the deployment of readme file. I google the problem, and it turned out that my commands from terminal did not work. Maybe it is because the repository was in BitBucket originally? Anyway, from GitHub website I could not choose the deployment of dist folder. But I could add the /dist to the initial deployment link. All in all, the website is deployed on:

<https://maria11101.github.io/modern_portfolio/dist/>

06.07.2022-30.07.2022

I have started to work on my own project. Most of the things went smooth.

I wanted to make a slideshow, but it did not work out, and I ended up with another grid for customer’s feedback.