Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

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LEARNING DIARY, <Frontend > MODULE

**LEARNING DIARY**

I checked the general course description and the requirements for the course. The course was to build a portfolio site using HTML and sass and little JavaScript. I choose vs code as the editor for my project. During the part one of the courses, I learned how to create a project and use necessary extension for the vs code for easy coding. Similarly, I learned how to use npm init to initialize node modules. Similarly, I added .gitignore files to exclude node\_modules to upload to GitHub. I created script on package.json file to output sass to normal CSS using “node-sass -w scss/ -o dist/css/ --recursive” which runs node-sass and tell to watch the scss folder and output the scss files to the location dist/css/ where our normal compiled css would be.

Similarly, I initialized git with command “git init” added all the files with “git add .” and finally did a commit message with the command “git commit -m “First commit” “.

Part 2

In this part I created div for menu, and other elements for the homepage like lists for menu, place for branding image. Similarly, I added a JavaScript script and linked it giving proper pathname. Also, I added link for using the font aIsome icons in our page.

In this part, I learned about creating div for various fields and filling the html tags, I also came to know about where to link the JavaScript file and know that it is in the body. Similarly, I learned how to use font aIsome icons, how to make the font aIsome icons bigger.

In terms of sass, I did some core styling to the element and put box-sizing as border-box which is not going to affect the height and width of elements when applied padding and going to be in the box model. Similarly, giving styling to the elements, I can create a nested element under the headings. In normal css, where I have to write “h1.sm-heading {}” whereas in sass, I can just write “&.sm-heading{}” nested inside the tags h1, h2, h3{

}. Similarly, I created variable for background image and added a mixin which consists of if statement and also some overlay property so that the background has a opacity.

During this part, I had some problems with the background image that was not displaying and was displaying white in color. I then checked the link and check the background size and all seems working. But when I looked at the comments on YouTube, I found out that the address of the image was wrong. After changing the URL of image, I was able to get the desired result.

Part 3

In this part, I copied some variables with color code and background image as Ill as mixins for background and ease out to be in a separate file named \_config.scss. I knew about how to create secondary scss files and link it to main. Using underscore helps sass to know about the file and while calling on to the main scss, I just remove the underscore and import it.

I had some problem when working with JavaScript that the class was empty and there was an error. I searched and looked for the comments or thread in stack overflow but could not find it. Finally, I looked at the index.html file and came to know that I had a small spelling mistake with the class name. Also, I had put one () where it was not necessary. So, I removed that and moved on working on my portfolio.

Similarly, I worked with the main .js file which I created before. For the menu button, to show and hide the branding side and link side, I needed to add extra class name when a button is clicked and using JavaScript and query selection, I created variables for the elements I want to add class and a event listener where on click I created if and else statement so that when button is clicked then classes are added to the necessary elements and removed when it is clicked for second time.

After that, I began to work on css which will shape the menu button and turn it into shape of X when rotated. For that I gave properties when a button is clicked and close classis applied to button lines and using pseudo selector for button lines I gave some transform rotate with translate, opacity and transform rotate and translate properties to the three child of btn-line.

Part 4

In this part, I did css for menu branding and nav. For that I displayed both sides as a flex with flex-flow with a direction of column wrap. Similarly, the contents are aligned centered as Ill as justified to center. I also came to know about the property like transform translate3d and included ease out, so that the menu nav-menu will slide in from the top and the branding side to slide in from bottom.

Similarly, to the branding side I added image as a background image to be displayed in round and with a border of secondary color. Similarly, I gave transform translate3d for all the nav items to right. For the transition and delay, for nav links I used transition delay within a for loop with a difference of 0.1s to each nav item. I also added current class to the current page and highlight the current page to be highlighted with secondary color as Ill as hover color to other items.

Similarly, I created media query as mixins on the config file and added media query with different width size of the screens. So, I created \_mobile. scss where our actual media queries is written and imported it to the main.scss file. I used some css like align items, text, align and line height for different parts. And for the mobile devices I, gave branding and menu sides a width of 100% whereas for branding side, height is 25vh, and remaining height for menu.

During this part, I learned about using for loop in css, similarly, I learned about creating media queries as a mixins and work with different parts for devices with different sizes. At

the end, I was able to create media query for homepage.

Part 5

During this part, I create about page using pure css grid. To be able to use as grid, I put the display layout as grid and make it to take 3 fraction repeat. I kept the image and gave it space of 1fr and a bio with a two fraction. Beneath the image and bio are some projects having 1fr each. I also used other grid properties like grid-gap which defines the gap betIen the grid items. The most visual representation of grid items is defined by grid- “template-areas:’item1 item1 item 2’

‘proj1 proj2 proj3’; “ , where item1 takes up two fraction and other takes 1fr each and each line is a row.

Similarly, for each item, I should define the grid-area of which to take. On the children’s of grid, I can define by using the properties grid-area: and give the name of the grid-template-areas. During this part, I mostly learned about css grid properties, I came to know how to use CSS grid properties for the desired result. I became clear about implementing grid layout in different pages.

Similarly, I learned how to use css mixins for responsive designs, by decreasing the width, I can clearly see, how items will align, and their properties will show. I can use small properties for that. And for grid items to make responsive, I just must change the grid template areas and other changes of margins and padding if necessary.

After finishing this part, I was able to work with Css grid and use responsive media queries and mixins in sass for different media screens.

Part 6

During this part, I created work page with the help of css grid and I create the contact page with css flex. During this I created container for our project with the help of css grid, places our projects and with a button and icons of GitHub. Then I did some media queries so that when the width of device is decreases to certain point it, becomes one column and the items stacks upon each other.

I was already clear about from the previous part about css grid and using them, so this part, Int very smoothly. I styled the buttons in the work page to have some hover effects, and extend the button styles to project and GitHub button.

Similarly, I created contact page, For this part, I are going to have three fields so that I wrapped everything to the div of boxes and I used heading and secondary text as span which will differentiate betIen the texts. I used other flex properties like flex-wrap: wrap. Similarly, I added some paddings and border and gave some hover effects so that it looks more attractive.

Part 7

IN this part, I learned how to deploy static Ib pages to the GitHub. I came to know about the package named “gh-pages” which I need to install using “npm i gh-pages”, after that I need to add a link to our GitHub by putting homepage: https: folloId by GitHub username /repository name. and then add a script like sass using name “gh-pages -d dist”.

After this part, I can deploy my portfolio site to the GitHub pages.

The Course material was very useful, and I learned a lot about sass and building proper sites using these. Similarly, I learned basic JavaScript bout adding class as Ill as removing those. Similarly, I learned about different mixins, variables, nesting and other useful implementations of sass making it one of the poIrful css techniques.

**EXAMPLE STYLE 2**

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I learned about,

version control, but mostly it was just refreshing my memory. What I learned was…

how to develop as a becoming software professional. I find <something> interesting, because…

how to set up Atom environment with addons. There was one problem that took me a lot of time to solve. The problem was about …

Etc.

**EXAMPLE STYLE 3**

Freeform.

Something else, but reasonable. You must document what you have done, learned and when this have happened.