Lappeenrannan teknillinen yliopisto

LUT University (Lappeenranta-Lahti University of Technology LUT)

Software Development Skills Front-End, Online course

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LEARNING DIARY

Date: 16th May 2023
Activity: Introduction to workflow and sass [part 1]
Learning outcome:

In this module, I had node and npm installed already in my system. To initialize npm I ran the following command in terminal/command prompt:

```
npm init
```

To install sass:

```
npm i node-sass
```

We need to change the script in package.json to run the sass in our project. What the following script will do is that it saves all the scss in css file we destined. This will help us to run minified css in our page where we write scss in different file. **-w** means watch the scss and output **-o** to destined css inside the dist folder we created. Similarly, **–recursive** helps parsing while auto reload.

```
"scripts": {
    "sass": "node-sass -w scss/ -o dist/css/ --recursive"
  },
```

to run the sass:

```
npm run sass
```

Date: 16th May 2023
Activity: Homepage and Core Sass/CSS [Part 2].
Learning outcome:

In this module, I learnt how to use font awesome icons. For this, we simply link the cdn in the html file. Secondly, I learned how to nest css with & inside parent tag. Following that, I learned what rem unit is. rem unit is the multiplier of html font size.

1 rem = 16 pixels (default).

I also learned that vh is viewport height, in making 100slice in height and vw is viewport width which makes the total width of the screen in 100 slices. Similary, I learned how to use mixins in scss. @mixins need @include to make the mixins work and @if for if statement. Finally, I learned how to put an empty content in the scss by using sudo element &:after or &:before which needs content:' '.

Date: 16th May 2023
Activity: Rotating Menu Button [Part 3].
Learning outcome:

In this module, the most important thing to remember is to commit in github. This will help us to go back to the earlier version of our code. Similarly, I learned how to add show and close class in the javascript. Whereas, in scss I learned how to use the transform and sudo element with nth-child as well as translate property of transform element.

Date: 17th May 2023
Activity: Menu overlay and responsiveness [Part 4].
Learning outcome:

In this module, I learned, & is very handy to call the class inside parent tag. Similary, I was a reminder to use mixins with @include. Similarly, I learned to make responsive website, i.e, inside @mixin we can use @media and @content to save the responsive functionality in separate file. Inside separate file we just use @include and add responsive styling inside the @include. This will include all the css property to the the mixin where there is @content.

Date: 17th May 2023
Activity: Page with CSS Grid [Part 5].
Learning outcome:

In this module, I created a set text color function with @function and if statement with @ infront of the if statement. Thus, learning that function can be called directly with their name without @.

Similarly, I learned how to use grid in this module.

```
display: grid
grid-gap: 30px
grid-template-areas:
'bioimage bio bio'
'job1 job2 job3';
grid-template-columns: repeat(3, 1fr);
```

We need provide the grid area for each grid template areas. In other words, we need to set the classes to the areas we gave inside the grid-template-area.

```
.bio-image{
grid-area :bioimage;
//styling can be done afterwards.
}
```

I learned grid is powerful in terms of responsive behavior. We simply put the grid template areas in column.
e.g.

```
grid-template-areas:
        'bioimage'
        'bio'
        'job1'
        'job2'
        'job3';
      grid-template-columns: 1fr;
```

Date: 18th May 2023
Activity: Work and Contact Pages [Part 6]
Learning outcome:

In this module, I got refreshed with the responsive behaviour with grid css and use of flexbox. I learned to add hover effect as well as the darken and lighten effect porperties of scss.

Date: 18th May 2023
Activity: Website Deployment [Part 7]
Learning outcome:

In this module, I learned how to deploy the project in github. Firstly, we create a new repository in github. All the files were already added and commited during the development. So, I simply added the files in the github with git remote command and pushed the files in the git. Then, to deploy the pages I installed the gh-pages as instructed by the lecturer.

```
npm i gh-pages
```

To make the package run we need to add inside package.json the following command:

```
"homepage":"https://mahamadshah.github.io/my_portfolio",
  "scripts": {
    "sass": "node-sass -w scss/ -o dist/css/ --recursive",
    "deploy": "gh-pages -d dist"
```

and finally to deploy we write the following command in the terminal.

```
npm run deploy
```

In the end my portfolio looks like this:

https://mahamadshah.github.io/my_portfolio