Lappeenrannan teknillinen yliopisto

Name of your school goes here (School of Business and Management)

Software Development Skills Front-End, Online course

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LEARNING DIARY, FRONT-END MODULE

## Why I’m here?

I chose this module because I haven’t had much front-end coding in my previous studies. I work as an accessibility specialist in public organization, and I would like to understand more deeply how to make fully accessible modern web sites. My personal aim is to develop my English skills, so this module fits also to that goal well.

EDIT. 22.2.2024 How my course work *“look more like me”?* My aim is to point out non-accessible features in the Responsible portfolio and fix them to work in an accessible way. In this learning diary I will refer to Web Content Accessibility Criteria version 2.2 by using the exact, numbered succession criterion, e.g. WCAG 2.1.1.

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## Learning Diary with Details

### Date: 17.2.2024

**Activity**: I started this course by checking the general course information and getting familiar with course activities. I did environment setup and chose VS code editor, because I have used it in back-end coding. I also watched the first additional video lecture “HTML part 1”.

**Learning outcome**: The first video, “Introduction to HTML5”, was good recap to the basics of HTML I have studied before, many years ago. It was useful to run through basics about page main structure, metadata and most common tags.

### Date: 18.2.2024

**Activity**: I watched the second additional video lecture “HTML part II”, which was good recap for HTML elements. I also watched the video “Introduction to workflow and sass (part 1)”, which was a lot more to learn and install. Hopefully all went right (fingers crossed)!

**Learning outcome**: Learn to know useful VS Code front-end coding extensions, some basic information about sass and how to start to write index-page. I think my understanding about the benefits of sass will expand more, while doing the web pages. And I’m looking forward to learning more about it! Couple of times I got error-messages, but noticed quite soon that the mistake was files in wrong folders. Easy to correct! The responsive design looks modern, but also clear and easy to use, but I wonder if there are accessibility issues in in. But I will learn it later.

### Date: 20.2.2024

**Activity**: I watched the second mandatory video about “Homepage and Core Sass/CSS”, which was both interesting and fun to do, but also frustrating because of old links and references to old web sites. I succeed to make the main page – yei!

**Learning outcome**: This session included a lot of new information for me. First, the “link” between sass and css came more clearer to understand. Second, creating core sass teach me new possibilities to design modern look page. And third, I learn new variables and nesting.

### Date: 21.2.2024

**Activity**: I watched the third mandatory video about “Rotating Menu Button”. The button was quite easy to do just following the video, because he tells so clear what he is doing and how the code shows in the web page. Rotating menu button done!

**Learning outcome**: This session was really interesting, because it included both Sass and Java Script. I would not been able to make this kind of java Script by myself, but I understood everything. I find that this **menu is not operable with keyboard**, so it is it not accessible. I think that reason is the use of “div” element instead of “button”. Div in generic html element, but “button” is semantic element, where keyboard accessibility is build-in feature. I will figure out if I’m wrong or right later and do the menu also keyboard operable (WCAG 2.1.1).

### Date: 22.2.2024

**Activity**: I watched the third optional video about JavaScript (about a half of it) and continue my course work with fourth mandatory video about “Menu Overlay and Responsiveness”. Menu items doesn’t show the manner they should, so I spent quite a long time to find code error (which occurred in JavaScript). But I got it fixed!

**Learning outcome**: I learn to add branding and navigation to the site. Menu overlay was quite easy to do, and my main learning experience was finding the code error in JavaScript. Searching the error was good opportunity to read all code through and figure out what different code elements do in practice. Menu overlay is transparent, so the contrast between the text and the background is not so clear as it could be. **Contrast ratio may be enough (4,5:1, WCAG 1.4.3)**, but by removing opacity, the layout is clearer and easier to see the text. I remove the opacity to make background one-colored. The background color would also be a bit darker, but I will think about it later.

### Date: 24.2.2024

**Activity**: I continue to watch the fourth mandatory video about “Menu Overlay and Responsiveness” and progress with my course work adding the media query in it.

**Learning outcome**: I learn to add media query Sass mixins and understood how to set values to the different screens sizes.

### Date: 25.2.2024

**Activity**: I watched the fifth mandatory video about “Page with CSS Grid” and progress with my course work at the same time. I created About Me -page using CSS Grid and added Sass styling to them.

**Learning outcome**: I learn the basic idea of CSS Grid and how to use it in practice. I also get the idea how to add grid template areas and map out the personal layout. I learn to use media mixins when making the page responsive and looking good for different screen sizes. In the video, grid headings were used in inaccessible order: from h3 to h6. **WCAG succession criteria 1.3.1 Info and Relationships, demands that headings should use in numbered order**. So I made my headings in level h1- h4.

### Date: 27.2.2024

**Activity**: I tried to use my portfolio only with keyboard and found it impossible – it did not work at all! I started from menu and changed the “div”-element to “button” and it worked as I assumed. I also add aria-label (aria-label = ”Menu button”) and now screen readers tell also that name of the button to the screen reader user. I searched more information about generic and semantic html elements and most common accessibility issues dealing with those.

**Learning outcome**: I learn or may I say recalled differences between html semantic and generic elements and their attributes.

### Date: 29.2.2024

**Activity**: I watched the sixth mandatory video about “Work and Contact Pages” and continued coding my course work at the same time. I created Work- and Contact-pages using CSS Grid and flexbox.

**Learning outcome**: I learn another implementation of CSS Grid and how to use it in practice. I also learn how to use Flexbox. I understood that Grid is best for creating complex layouts with rows and columns, while Flexbox is ideal for aligning items within a container along a single axis.

### Date: 3.3.2024

**Activity**: Today I just worked with my project. I make Menu-button keyboard accessible some time ago, but today I concentrated on how to make menu-button readable with screen reader. It was quite easy, although finding the right place in Java Script code was a little bit difficult.

**Learning outcome**: I learn how to set attribute in real js-code. I haven’t use method “setAttribute” before, so it took some time to understand how to use it and where is the right place for it. But I did it and now screen reader can tell if the menu in opened or closed - yei!

Omat muistiinpanot työn tarkistusta varten:

noudatetaan jo kriteeriä

* sivulla on otsikko ( title)
* sivun otsikot kuvailevat sisällön
* näppäimistökäyttö?
* reaponsiivisuus
* pelkän tekstin suurentaminen 200%?
* Toiminta ruudunlukijalla?