LUT University, Lahti Campus

Software Development Skills Front-End, Online course

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LEARNING DIARY, Software Development Skills Front-End MODULE

LEARNING DIARY

12.11.2024

Today, I enrolled in the *Software Development Skills Front-End* course. My main objectives for taking this course are to enhance my knowledge of developing responsive webpages using HTML, CSS, and JavaScript, exploring their features, and learning best practices for utilizing these technologies.

To begin, I referred to the instructions and details provided in Moodle for this course. I reviewed the *Course Overview* and *General Course Information* sections to understand the structure.

13.11.2024

I followed the materials provided in Moodle under the *Environment Setup* tab. Following the instructions, I:

- Installed Git for version control.
- Created an account on Bitbucket for managing repositories.
- Selected and installed VS Code as my code editor.

14.11.2024

I practiced using Bitbucket to familiarize myself with its features, including adding, editing, deleting files, committing changes, and creating pull requests.

As part of this exercise, I:

- Created a public project repository named *Front-End*.
- Added a new file called home1.html to the repository.
- Edited the file, committed the changes, and gained experience with the workflow in Bitbucket.

15.11.2024

I started following the YouTube video *"Professional Website from Scratch | HTML & CSS For Beginners"* provided in Moodle. I completed the first part, which covered the Introduction and Base HTML.

Key takeaways included:
- Setting up the project and understanding responsive design.
- Linking CSS and JavaScript files to HTML.
- Incorporating Google Fonts, Font Awesome icons, and a favicon.
- Using shortcuts for efficient coding.
- Additionally, I installed the *Live Server* extension and the *Prettier* extension in VS Code. I began developing the project as a practice exercise, initially naming the folder *PracticeProject*, which I later renamed *Coursework* on 25th December.

21.11.2024

I enhanced my HTML and CSS skills by working on:
1. **HTML Features**
- Adding hyperlinks and unordered lists.
- Creating and styling lists with CSS.
2. **CSS Techniques**
- Applying CSS properties for styling.
- Using favicons and custom CSS variables for reusable values.
3. **Interactive Elements - Buttons**
- Adding buttons and modifying their properties.

06.12.2024

I moved my local project to my Bitbucket account. Initially, I faced issues transferring files, but after researching on Google and YouTube, I reinstalled SourceTree. Using SourceTree, I successfully pushed my local files to Bitbucket. I practiced committing changes and exploring version control functionalities.

07.12.2024

By watching the *Buttons & Utility Classes* video, I learned:
- Styling buttons with hover and active states.
- Using utility classes like .btn-primary and .text-center.
- Styling form elements (input fields, labels, submit buttons).

I applied these in my *Coursework* exercises and I referred the web Applications course lectures with demo video 4 and 5 (CSS Part I , CSS Part II) mentioned in the Moodle.

08.12.2024

I added two new sections (Video Section and Testimonials) to the *Coursework* exercises. I used various HTML elements and CSS properties to enhance the sections.

I referred the web Applications course lectures with demo video 6 and 7.

15.12.2024

From the provided video, I learned:

1. **Designing Content Cards**

- Creating reusable card components with HTML and CSS.

- Displaying images and text within cards.

2. **Implementing CSS Grid for Layouts**

- Setting up grid containers and defining grid items.

- Using media queries for responsive grid layouts.

I applied these in my *Coursework* exercises.

21.12.2024

I referred to the *FAQ Elements* section and learned:

1. Adding a FAQ Section:

- Organizing frequently asked questions into a dedicated section using appropriate HTML tags.

- Styling questions and answers for enhancing readability

2. Creating an Interactive Accordion:

- Building collapsible content areas to display answers upon clicking questions.

- Enhancing the accordion with smooth opening and closing

And, in my coursework exercise I completed the remaining part of the previous pricing section and the HTML and CSS part of the FAQ section.

22.12.2024

I completed the footer section of my coursework exercise (Added the Footer with additional navigation links and contact information) and also make mobile responsive with media queries.

I refered the ` Mobile Menu & Responsiveness ´ section of the provided video and there I learnt followings and I applied them in my coursework exercise.

1. Enhancing Mobile Responsiveness:

- Writing media queries to apply styles specific to different screen sizes.
- Flexible Images and Text

2. Implementing a Mobile Menu:

- Creating a hamburger Menu Icon that toggles the navigation menu on mobile devices.
- Developing a sliding menu that appears when the hamburger icon is clicked.

And I referred to the Website Deployment' section of the provided video. (Steps to create a repository and push the project files to GitHub, Configuring the repository to host the website using GitHub Pages, Instructions on deploying the website on Netlify)

24.12.2024

I sketched a draft design for my individual project (*Cravory*). I created a logo and downloaded suitable images for the website. I also referred to the *Responsive Image Slideshow* video mentioned in the Moodle.

25.12.2024

Today, before starting my individual project I pushed my coursework folder to GitHub from my bitbucket account. (Because in the provided video the project is deployed in Netlify: https://www.netlify.com/ through GitHub repository)

For pushing the repository to GitHub from my bitbucket I referred some YouTube videos and for resolving the issues when pushing the repo, I referred stack overflow and google.

(Initially I created my coursework folder using the name 'PracticeProject'. Today I rename the folder name to 'Coursework' from 'PracticeProject').

Then I created the project folder '**cravory**' for my individual project and created the folder structure for the project.

As I learnt from the video first, I added Google Fonts, Font Awesome icons, and a favicon into the project and some shortcuts for writing code efficiently.

Then, I started developing the header section navigation bar of my project.

26.12.2024

I added CSS properties for the logo and the navigation bar section. I added the search bar and the cart item container to the header and added CSS properties to them as well. I added media queries for the responsiveness of the header section (for navigation bar and the menu button).

27.12.2024

I Implemented,

- Toggle feature for the navbar using JavaScript.
- Cart Toggle - Added functionality to show/hide the shopping cart container when the cart button is clicked.
- Search Bar Toggle - Developed functionality to toggle the search form visibility on clicking the search icon and also made the search form deactivates when the cart or navbar is activated.

For achieving this task, I referred several YouTube videos.

Initially I faced issues with overlapping functionality, such as multiple elements remaining active simultaneously. This was resolved by ensuring that activating one component deactivates the others.

28.12.2024

I completed the homepage top banner section and make it mobile responsive using media queries. And also I completed the AboutUs section and the Menu section.

I added contents, images, buttons and designed responsive and accessible buttons using CSS and hover and active states to enhance user experience.

29.12.2024

I completed Custom product section, Review Section, contact us section and blog section. (But I must finalize the contents of the blog section later because today I just added some dummy texts).

Today, rather than texts, images, buttons, I used

- Grid layout (e.g.: for grid layout repeat (auto-fit, minmax (30rem, 1fr))) and media queries for mobile responsiveness
- hover effects to enhance user experience
- Icons **-** classes like fas fa-shopping-cart (Font Awesome library)
- A basic form for with input fields
- Embedded google map using <iframe>

30.12.2024

I added some contents to my blog section and another two products under the menu. And I deleted unwanted images which I added previously for just making the design.

I completed the Footer section of my website. There I added some social media icons(also added hover effect), and links for each section.

31.12.2024

I completed my individual project and deployed my webpage in Netlify.

URL:

https://cravoryi.netlify.app

In my coursework exercises today I completed Javascript functions for hamburger option and in FAQ section. And I completed all the remaining parts of my course work such as some CSS changes etc. Today I completed my individual project as well as my coursework exercises.

01.02.2025

I Added project details and installation guidelines to the README file in the GitHub repository.

And pushed two images to the GitHub repository that were mistakenly deleted earlier while removing unwanted images.

Then, I Triggered Manual Deployment on Netlify to ensure the latest changes are reflected on the live website.

I uploaded the demo video recording to YouTube.

YouTube URL:

https://youtu.be/A-gPds4IUeU