

Lappeenrannan teknillinen yliopisto  
School of Engineering Science  
Software Development Skills Front-End, Online course

# LEARNING DIARY

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# Learning Diary

## Preparation & setup

17.03

By following a video tutorial “Git & GitHub Crash Course For Beginners”:

- Reading and understanding course overview
- Setting up Visual Studio Code by installing necessary extensions
- Updating Git to the newest version
- Creating empty index.html and style.css files
- Committing newly created files
- Creating a GitHub Repository and making first push

Learning Outcomes:

- Installing and configuring essential development tools
- Initializing a Git repository and making commits
- Learning how to push local code to a remote repository on GitHub

## Exercises:

19.03

By following a video tutorial “Professional Website From Scratch | HTML & CSS For Beginners”:

- Importing necessary images and fonts for the exercises
- Fixing an issue with main and master branch on GitHub
  - GitHub created the main branch, while Git locally used master for commits. After linking my local repository to GitHub, both branches existed. To fix this issue master was set as default, and main was deleted.
- Creating the homepage structure with HTML
- Writing core CSS for the project, including variables and nesting
- Creating a navbar with necessary elements and adding styles to it
- Creating further content of the page
- Designing the hero section with content and styles
- Adding testimonials section with content and styles
- Building content cards and structuring them using CSS Grid
- Implementing pricing section with proper styling
- Building the FAQ section and applying styles
- Creating app.js and writing JavaScript for FAQ accordion
- Adding and styling a footer with navigation links
- Implementing hamburger menu with styles and functionality
- Ensuring mobile responsiveness using media queries
- Testing layout adaptability across different screen sizes

## Learning Outcomes:

- Understanding the structure of a responsive webpage
- Learning how to organize CSS with variables and nesting
- Understanding CSS Grid and Flexbox and learning their basic usage to structure content efficiently
- Using JavaScript to create interactive elements
- Implementing a mobile-friendly navigation menu

20.03

By following a video tutorial “Responsive Portfolio Website [7] - Website Deployment”:

- Deployment of the website on GitHub Pages
  - Since the tutorial for deploying to GitHub Pages was created, GitHub has changed, so instead of following the tutorial, the deployment was done directly on GitHub by navigating to the specific folder containing the site, clicking **Settings -> Pages**, and finalizing the deployment there.

## Learning Outcomes:

- Understanding the process of deploying a static website on GitHub Pages
- Managing repository settings to enable website hosting

## Project:

26.04

- Creating the initial HTML file and adding metadata in the <head>, including fonts and favicon
- Building the navigation bar and applying basic styles
- Creating the hero section with heading, subheading, and two buttons. Adding styles for layout and buttons
- Adding the gallery section with two sample images and styling it using CSS Grid
- Creating and styling cards for image display, including shadows, padding, and hover effects

27.04

- Adding and styling the footer with newsletter form and useful links. Polishing overall layout
- Creating the FAQ section with an accordion component and adding app.js with JavaScript logic to toggle questions
- Expanding the gallery with more images and implementing a "Show More" button to reveal additional content dynamically
- Enhancing responsiveness with media queries. Adding a hamburger menu for mobile navigation with toggle functionality

- Fixing image sizing for medium-width screens to ensure a more professional and consistent appearance across devices. Adding download function to the buttons under the images.

#### Learning Outcomes:

- Learning how to structure a multi-section responsive web page from scratch
- Practicing using CSS Grid and Flexbox for layout
- Gaining experience in styling reusable components like cards and buttons
- Implementing basic JavaScript DOM manipulation for interactive elements (accordion, show more, hamburger)
- Better understanding of responsive design techniques using media queries
- Improving skills in debugging layout and visual inconsistencies across screen sizes