Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

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LEARNING DIARY, <CHOSEN MODULE NAME> MODULE

**LEARNING DIARY**

16.03.2023  
  
To start off the course I went over the general information about the course to check how to complete the course and what needs to be done. Afterwards I started watching the first tutorial video about the example project and followed it to create a sample program of a working website. It will most likely change a lot as the tutorials go on, but I got it working like was shown in the video. Finally, I created a Git-repository, so the code is available online from GitHub.

I am familiar with creating websites from the Introduction and Advanced Web Programming courses, so Node and most of the other things were quite familiar. Though the methods shown in the made program were different from what I was used to. I am used to using Express and routers to send and receive requests, but it was interesting to see different ways to do them instead using other libraries. I learned a bit more about how requests and responses are done overall. I also tried to use Heroku to setup an online hosted website of the program, but it now requires a credit card to verify the account which I wasn’t comfortable with so I will have to find another method to host the website. GitHub has a way to host websites so I will try to figure out if it is possible using their service instead.

20.03.2023

Today I studied and followed the second video from the video tutorials which went over the use of MongoDB and different commands to use it. I am already familiar with mongoose from the Advanced Web Programming course, so I knew most of the commands already aside from a few. All of the commands shown were the same as the commands that you would input into the JavaScript code which I found helpful. In the Adv. Web programming course, we used mongoose inside of the JavaScript file, but in the tutorial the commands were done inside of the mongo terminal which is a bit different. I wasn’t previously familiar with the mongo terminal so it was nice to learn so that in the future I can create databases and collections from the terminal itself instead of creating them alongside the JavaScript program which is helpful.

What was new to me in the video was different ways to updating data inside of already stored objects in the database, which I wasn’t that familiar with before. I’ve had a couple instances where I had to update old data with new data, but it has been quite sparse. There were many good example commands to insert new key values or update existing key values, which will probably come in handy when programming the project.

I think this was a good tutorial to show how MongoDB is used in actual applications and servers, and I believe I learned the basics to be able to use it to create databases in future projects.

21.02.2023

Today I studied the next lecture which included some examples of Express and some of its libraries, as well as the handlebars template engine. There wasn’t much new to learn in this tutorial as I was familiar with most of the stuff from the advanced web programming course, so I knew how to create an Express server and a router, and how to handle requests and responses using them. Though I hadn’t previously used the handlebars template engine so it was new to me. I think I understood the fundamentals of how it works, and I was able to create a simple webpage with a form where you could submit new member data to be saved on the server and all the members would be displayed in a list on the website using the handlebars template.