Lappeenrannan teknillinen yliopisto

School of Engineering Science

Sofware Development Skills

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LEARNING DIARY, FULL-STACK MODULE

**LEARNING DIARY**

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I read all the course information on the “Course overview” and the “General course information” tabs. I learned the goals of the course and the required work to do in order to pass it. I chose the full-stack module since it was the most interesting out of all the modules, and I also thought that I had a “good flow” after just finishing the “web applications” course.

Full-stack developing is already a familiar thing for me. The “web applications” course, and especially the project of it, taught me a lot about the subject and sparked an interest towards web development in me. I noticed, however, that this course utilizes the Angular.js front-end framework instead of the React.js framework which I have prior knowledge of.

I was already familiar with Git and I had no problems setting up a repository for the course. Choosing an editor was a no-brainer for me, since I have used Visual Studio for almost half a decade, so that’s what I decided to go with.

I started doing the Node.js module immediately. I am very familiar with Node.js beforehand but I started watching the video knowing that I’ll learn something new since Traversy media videos are very in-depth.

I watched the first 15 minutes of the video. The part that I watched was mostly knowledge I already had. It was, however, a good refreshment.

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I continued to watch the video about Node.js and followed the code example. I learned about the module wrapper functions in Node.js. (I have used them before, never really thought about the inner workings of them). The presented core modules “path” and “fs” were already familiar for me, so I didn’t bother copying the example codes since those wouldn’t teach me anything new. The “os” core module wasn’t familiar to me, so I followed the steps in the video to recreate the file.

I Also did the “url” core module section, even though I’ve worked with that module before, but it was so long time ago that I needed a refreshment. I didn’t remember exactly how to add search params to a url, but I relearned that. I also relearned how to make a simple Logger with event module.

After presenting the other core modules, the video focused on creating a http server with pure Node.js using the “http” core module. This is something I have never done before; I have always used Express.js. I followed the coding example on the video and learned how different it is to create a simple web server with pure Node.js and also just how much Express.js helps with back-end development.

While creating the server, I copied the html and css code straight from the author of the video, since that part wasn’t the focus of this section of the course. While creating the server, I just further learned just how tedious it is to create the simplest server with bare Node.js without any frameworks (such as Express.js).

The last part of the module was deploying the server online in Hekoru. This is something I have never done before and something I’ve meant to look into. After following along how to deploy to Heroku I was done with the module.

I continued with the second module (MongoDB). I was already very familiar with MongoDB, and I’ve used it independently and with the Mongoose library and even developed software with them.

I had already installed MongoDB on my machine, and I already knew everything from the beginning of the video. However, I’ve never used the Mongo CLI, instead I’ve always used the MongoDB Compass GUI software. For the sake of learning I did all the queries with the CLI.

First, I learned how to start the MongoDB shell on Windows. It is done by navigating to the MongoDB/server/bin folder and typing mongo into the terminal. Then, I learned the most basic navigation commands “show” and “use”. After that, I learned how to create and drop databases and collections, how to insert data into a collection, and how to show data in a collection (both formatted and non-formatted). Adding clauses and parameters to finding documents in collections doesn’t really differ from doing it through code, so that was old information to me. Same thing with updating and deleting data.

The main takeaway from this part of the video was the fact that I didn’t see any benefits of using the CLI over the MongoDB Compass GUI program.

Lastly, the video covered the MongoDB Atlas. It is basically a cloud implementation of MongoDB. The topic was familiar to me since I’ve used it before. However, it has been some time since I last used the MongoDB Atlas, so the video was a nice reminder.