Lappeenrannan teknillinen yliopisto

School of Business and Management

Software Development Skills

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LEARNING DIARY, FULL-STACK MODULE

**LEARNING DIARY**

**24.08.2024**

I went through the NodeJS tutorial and followed along with hands-on coding. Other than JS and a little bit of API endpoints, most of the stuff was very new to me and I found it very interesting. I use endpoints in my work and this knowledge will help me in that as well.

Environment setup was easy and quick for me as I have been working with VS Code and GIT from a couple of years now.

Then I started with MongoDB. I was excited to do this because I work with data in my work, and it had always fascinated me on how the data is stored in databases other than the typical relational databases. It was interesting to see how easy it is to perform CRUD operations in MongoDB. Another thing is that we can only use MongoDB with Shell and GUI but also inside VS Code. Since I work in the IDE for most coding tasks, it made the code feel less unknown.

I was not sure about what to add from the MongoDB tutorial to the GitHub repo, so I didn’t add anything.

**25.08.2024**

Did the Express crash course. It was relatively easier to follow-along since I got more familiar with the presenter’s style due to having watched NodeJS video earlier from the same resource. This was my first interaction with proper back-end programming. But again, since I have basic idea about APIs, it was easier to understand how we are handling queries, requests and response codes etc., and how to perform CRUD operations through different API requests. Postman was a handy extension for getting API responses. Also, I think the error handling part is very important because you need your API to give descriptive and clear response even if something is not good. The most exciting part was connection with the front-end, i.e. making requests from front-end. I had always wondered how would the connection between the two ends look like and today I got to learn about it.

**27.08.2024**

Today, I went through the front-end JS library React. Again, a lot of new stuff and things to digest but very interesting indeed. I have been thinking from long time to make a workout tracker for myself. The task planner shown in the tutorial gave me the idea on how I can implement it’s front-end. Perhaps that might be a good final project for this course of mine which will also fill up my real-life need.

I also liked the fact that we are able to download JSON server which behaves like an API and lets us do CRUD operations to learn how can we fetch data or do other operations, without having to code a back end.