Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

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LEARNING DIARY, BACK-END MODULE

**LEARNING DIARY**

**REST Intro MODULE**

23.06.2021  
  
I went through general course information and checked what programs I must install to complete the course. I started by making a folder in VS Code, since I had it already installed and linked it to my GitHub. After I had done preparations, I started by watching the first module introduction video. I got the basic concept of API:s and how they operate. I followed the videos instructions and made some example calls as instructed. It was short video, but I learned the basics of what API:s are.

**NodeJS MODULE**

02.07.2021

I opened VS Code and started to watch the second module video. After introduction to what NodeJS is, the instructor began to code. I wrote code at the same time and paused when I needed to review what I had done. Json structure was familiar to me, but otherwise everything was new. I learned basic commands and how to run code with node. I also did my own HTTP server, which was good to learn. I learnt how to modify the server and how to add and delete for example text in that server.

**MongoDP MODULE**

05.07.2021

I linked my VS Code to GitHub repository and pushed NodeJS code to there. After that I downloaded MongoDB Compass to my PC. I began to watch the instruction video. I had some problems to get the MongoDB Shell to work, but after a while, I got it to work by reading installation manuals. I made basic commands in MongoDB Shell as was instructed in the video. I learned how to add collections and documents to database. I added data to the database with MongoDB Shell as was instructed in the video. It was good to learn the usage of database and how to modify the data that was stored there. I also tested how to connect to Atlas cloud database.

**Express JS MODULE**

13.07.2021

I had some problems with GitHub, so I made new repository to get it fixed. I had to upload my code there by myself and could not push from VS Code. I started Express JS module and it had a lot of similarities to the Node JS crash course, so it was easy to grasp on. I installed express extension for VS Code and coded along the instruction video. I learned that with express you can compress your code to a much smaller package. I made Members API to the network server and learned to make user interface with express handlebars.

**REST API MODULE**

14.07.2021

I installed all the needed extensions, as was instructed, and began by starting my server. I also copied the code, with which I started the server to my final project folder, since I will be needing that. I got error message, because the video was slightly outdated, but I looked it up from Stackoverflow and got it fixed. I made the frame for the API. REST Client extension was also useful since it allowed to send requests directly from VS Code and to get them back from the client. I tested the request and it worked. I learned that with async you can write cleaner code and shorten it up a bit. I made functions for adding, updating, deleting, and listing all the subscribers and I got a request through the client for all of them. In the end I had a basic but working REST API, which would be a lot of help with the final project.