

Lappeenranta teknillinen yliopisto
School of Business and Management

Software Development Skills

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LEARNING DIARY – FULL STACK

LEARNING DIARY

7.2.2024

I got into the course moodle and checked out the instructions. Very straightforward and I didn't need to set anything up as I already have the needed tools.

8.2.2024

I started with the Node.js lesson. There was a lot to take in and took a while to code along and try to understand. Luckily the syntax was mostly familiar, but all the modules and other node stuff was very new. It was very cool to see what you can do with node. The whole lesson had a nice structure with first going through the modules and the important functions. After that it was nice to have a bigger example and putting the previously introduced modules to use. Deployment didn't work out though because Heroku isn't free anymore.

12.2.2024

I started the MongoDB tutorial. The installation some took time. But after getting everything in the right place I got to working. I have a bit of experience with using many popular database systems. Including MongoDB. So it wasn't completely new, but it was nice to get back to it again as it's been a while since I have played with databases and queries.

13.2.2024

I didn't finish the lesson on MongoDB so I continued that. The update-method seems to be outdated so I had to look around a bit to find out how things work now. Seems that `replaceOne` is used if one wants to lose all the previous info of a document. But other than a couple changes in the methods, everything was quite straightforward.

17.2.2024

I started with the Express lesson. It was cool how easily and with how little code you can actually do stuff. Compared to just using Node.js it was so much quicker. The Postman also seemed very handy to use.

I got stuck at some point with Postman yelling “*socket hang up*”. In the end it was a dumb typo. I also got quite confused when downloading the express-handlebars. It was giving me warnings and I wasn’t sure if I needed to do something different. But I changed my node version and installed again which fixed everything.

24.2.2024

I started the Angular lesson, but didn’t really do much other than setting the environment up.

25.2.2024

Continued the Angular lesson. It seems that Angular has changed a bit in the couple years since the tutorial came out. It was said that there is no need to import components, but that gave me an error. In the comments someone luckily explained the change and by making a simple import everything started working again. I then got an error saying “*Property 'text' has no initializer and is not definitely assigned in the constructor*” from “@Input() text: string;” but that got solved by initializing it “@Input() text: string = “”;”. Then the Http provider thing was showing errors and I had some troubles as the *app.module.ts* isn’t a thing in the newer Angular version, but luckily it was easy to find an answer.

I had a huge issue with deletion. Everything was looking correct and I did just as in the tutorial. But the *db.json* file was just staying the same and I couldn’t get the individual tasks. After an embarrassing amount of time I decided to try and restart the json server and then it started to work.

26.2.2024

More Angular lesson as my mistakes took some time to solve yesterday. The rest of the lesson went quite smoothly. The whole process started to finally feel a bit familiar, even though the amount of files still sometimes boggles my mind.

6.3.2024

Started with the Mean stack. In the second part I already faced some issues. Connection to database was giving just errors. But I found a solution

(<https://stackoverflow.com/questions/46523321/mongoerror-connect-econnrefused-127-0-0-127017>) that said to change *database.js* file's address from "localhost" to "0.0.0.0".

After this change everything started to work.

In the third part I came across this error "*MongooseError: Model.prototype.save() no longer accepts a callback*". I tried to look for the solution and found that using *async* and *await* could be a solution. I still had a hard time understanding how I should change the code so I asked ChatGPT. It actually came out with a working solution and helped a little in understanding how asynchronous functions are formed.

In the fourth part I had more issues. A lot of stuff has changed and I had to search how things are done nowadays. First I got an error telling me I was missing "*express-session middleware*". The solution was quite simple in the end (<https://stackoverflow.com/questions/72447729/login-sessions-require-session-support-did-you-forget-to-use-express-session> and <https://www.npmjs.com/package/express-session>). Then I got the callback error from "*findOne()*" which was to be expected after the first. Then I had to make a small change in *users.js* from "*const token = jwt.sign(user...*" to "*const token = jwt.sign({ data:user}...*" as the error stated "*Expected 'payload' to be a plain object.*". Answer was in the comments section.

7.3.2024

Fifth video didn't start without issues. I checked out the notes in the course instructions and tried to work everything out. Seems that the syntax is a bit different now as the instructed commands didn't work for me and I got odd errors. I found a solution that in the end worked (<https://stackoverflow.com/questions/43344600/how-to-install-a-specific-version-of-angular-with-angular-cli>). In the end I had to use node 18 when doing the *nodemon* command switch to node 12 when doing *ng serve*. Probably not ideal, but that is the way I got things to work while following the tutorials and using old versions.

I had to play around a bit with the bootstrap/bootswatch templates. It was looking horrible and not right at all. But I finally tried the version 3 of the bootswatch template which made everything look close to like it should.

12.3.2024

The sixth part went quite smoothly. It was easy to understand and the validation and whole component seems easy to reuse.

The seventh part came with some issues. Http module is deprecated so it had to be replaced. Luckily there were many comments instructing what to use instead. Then the registerUser function was not really working. I got some errors from the “*map*”. Then in the comments someone had a solution that didn’t involve it at all. Also “*data.success*” wasn’t working but after changing to “*data[‘success’]*” it started to work. After these changes everything was looking good.

The next video went pretty smoothly. There were some changes I had to make, but these were similar issues to the previous video so it wasn’t a huge task.

In the ninth video I had some issues with getting the profile info to show up. Error was saying that I was unauthorized. Everything was done like in the video. Someone in the comments had linked their solution to the whole project. I checked out the “*getProfile()*” part to see how they have done it. It was a bit different. In the original solution the http headers were appended, but the other solution defined them while creating the new header. And that magically made things work.