Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

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LEARNING DIARY, FULL STACK MODULE

**LEARNING DIARY**

29.05.2022

I started by reading through the course page, which was familiar as I’ve completed two other modules before. I have version control set up, so I went ahead and started watching the newer NodeJS video.

The slides at the beginning of the video improved my understanding of what NodeJS is and when it’s typically used. Following the note below the video links, I downgraded my NodeJS installation from version 17 to 12.22.12 by using nvm-windows. Once that was done, I opened Visual Studio Code and ran npm init in the course folder I created. Next I installed uuid and nodemon, and learned about dev dependencies.

While following along with the video, I learned that to include variables in the middle of a string in JavaScript you use backtick characters and not quotes. During the path demo part of the video, I learned about the join function, which seems very useful to avoid delimiter errors. While doing the fs demo I ran into an issue which was caused by not having installed the modules globally. After that, I had no issues with the rest of the demos.

Doing the server creation helped remind me of some things I learned when doing the front-end module. It also connected the previous module demos well. Once I was finished with the server code and other parts, I signed up for a Heroku account and installed the Heroku CLI. To upload the app to Heroku I copied all of the files to a different directory so that the course GitHub repository is not affected. The deployment went without a hitch.

04.06.2022

I began watching the MongoDB video and installed MongoDB Community Server as a service. I learned about MongoDB’s syntax and functions by doing the same commands as shown in the video. During the text search part I had to look up why the escapes and quotes were needed. I found out from Mongo’s documentation (<https://www.mongodb.com/docs/manual/reference/operator/query/text/#std-label-text-operator-phrases>), that to match specific phrases you need to enclose the phrase in escaped double quotes. The rest of the video was clear.

06.06.2022

I started the Express JS crash course. I have no prior knowledge of Express, so the beginning of the video had a lot of new things for me. Continuing with the tutorial, much of it was similar to the NodeJS course so it helped hammer in the earlier lessons. Initially I found it somewhat hard to wrap my mind around routes and how Express works. There were also so many new functions introduced and little things to keep in mind that I will most likely need to revisit this video later.

During the later part of the video I ran into an issue with express-handlebars where I could not use exphbs as a function like in the video and instead had to use exphbs.engine. I found the solution on Stack Overflow: <https://stackoverflow.com/questions/69959820/typeerror-exphbs-is-not-a-function>

10.06.2022

I installed Angular CLI, which didn’t work at first since my Node version was incompatible. I looked up a compatible version of Angular (<https://gist.github.com/LayZeeDK/c822cc812f75bb07b7c55d07ba2719b3>) and installed version 13.3.7. Next I created the Tour of Heroes workspace. Continuing with the tutorial, I learned about:

* TypeScript syntax
* braces of interpolation
* creating components
* displaying components
* using pipes for formatting
* two-way data binding
* AppModule
* importing modules

12.06.2022

I continued the Angular course from part 2. I learned how to display a list, conditional html blocks and how to toggle a CSS class with a class binding. In the third part I learned how to separate a component into smaller components.

While working on the fourth part, I ran into an issue where the error message was: “TS2339: Property 'subscribe' does not exist on type 'Hero[]'.” After a few minutes I realized that I hadn’t saved my previous changes to the HeroService file, which changed the return type of getHeroes to Observable. The rest of the part went smoothly and I learned how to use services.

14.06.2022

I completed part 5 of the Angular course. It taught me about how routing works in Angular. The use of a router-outlet element to display different views makes a lot of sense in my mind, I had never thought about a solution like that before.

15.06.2022

I finished the final part of the Angular course. I had some trouble understanding how the InMemoryDataService works at first, I had to re-read that part multiple times. I also had to downgrade the InMemoryWebApi module to version 0.13.0 as 0.14.0 wasn’t compatible with my Angular version. I learned a lot about using HTTP with Angular and new things about Observables.

21.06.2022

I started watching the MEAN stack tutorial series. I watched the introduction video and part 2. At this point I’m getting used to making new apps with Node as I’ve done it a few times. There wasn’t anything new in the video except for mongoose.

23.06.2022

After watching part 3, I have a better idea of how mongoose works. I was originally confused because I didn’t manually create a database in Mongo, but it actually creates it automatically.

During part 4 I ran into an issue, I needed to use express-session in addition to passport in order to have session support. I looked up how it works from here: <https://www.npmjs.com/package/express-session>. After fixing that, I got another error: Expected “payload” to be a plain object. From the comments in the video, I found out that this can be fixed by changing the user parameter in jwt.sign(user, …) to an object: jwt.sign({user}, …). I had no issues while following along with the rest of the video.

27.06.2022

I started with part 5. I uninstalled the version of Angular I had and installed version 1.0.0-beta.28.3. After trying to run ‘ng serve’, I got an error saying “Invalid ‘reference’ directive”. I looked it up and I found a solution from here: <https://github.com/DefinitelyTyped/DefinitelyTyped/issues/10097#issuecomment-499783519>. Updating typescript to version 3.5.1 fixed the issue. Another thing that differed from the tutorial was that while generating a component with “ng g component” it couldn’t find the app module and I had to import the generated components myself.

Upon testing the navbar at 18:10 in the video, mine looked a lot different. It had a button that says ‘Toggle navigation’ and the login and register buttons were not visible. I dug through the comments and found that using a different bootswatch link (<https://bootswatch.com/3/sandstone/bootstrap.min.css>) fixes it.