Lappeenrannan teknillinen yliopisto
School of Engineering Sciences

Sofware Development Skills Full-Stack, online course

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LEARNING DIARY, FULL-STACK MODULE

15.12.2023

I chose VS Code to be my IDE. I watched the NodeJS (updated) video and learned about a few different modules (fs, http, path). I learned to create a http server without using the VS Code live server addon. I also learned about commonJS, I had only used ES6 previously. I learned a bit about http status codes. I could not deploy the app to Heroku since it is not free anymore.

16.12.2023

I learned about MongoDB I watched an updated video that was released in 2022. I learned about using the mongo GUI compass. I learned about staging and how to filter data to get what you need.

17.12.2023

I watched the ExpressJS crash course video (new). I learned about creating APIs CRUD operations. I ran into a problem where installing express-handlebars would crash the

program. Solutions I found on stack overflow and the handlebars GitHub issues page did not work for me, so I just ended up watching the rest of the video without coding along.

I Started the MEAN-Stack project, ran into some issues building the app using the latest versions of dependencies. Solved it by using the same versions that are in the sourcecode.

18.12.2023

I have watched up to part 3 of the tutorial and have been banging my head against a wall with mongodb for the past 2 days. I Tried reinstalling, installing old versions etc. I could not connect to the database and mongod would crash instantly when I ran mongod.exe. Turns out I did not have the directory "C:\data\db\", and I needed to create it manually... After creating that everything works as expected.

During part 4 I had an error: illegal arguments: undefined, string. I was stuck on that for about an hour and it ended up being a typo on a variable.

I finished the fourth video and the backend of the project (or most of it). I learned a lot about how to create users and do authentication. But I feel like a lot of the topics covered this far went over my head. So, I need more practical practice on backend topics.

On the fifth video I had a problem where using "ng serve" would fail to compile. Using the solution on the first answer at https://stackoverflow.com/questions/63720450/node-modules-types-node-index-d-ts20-1-error-ts1084-invalid-reference-dir solved my problem.

On the sixth video I had issues with the navigation bar hiding some of the content on the site. I edited the css file to fix some of the changes, however I was not able to change the position of the flash message element. The first flash message is always partially hidden behind the navigation bar.

19.12.2023

I finished parts 7-9 with minimal issues. I learned more about authentication and creating user registration, login, and logout functions. I learned how to protect different pages and redirect the user if the user is not logged on. I did not deploy the app to Heroku since it is not a free service.

20.12.2023

For the past 2 days I have been working on the final project. I decided to create a to do app. I am building this app on top of the MEAN-stack tutorial. I have been trying to understand angular components. I ran into some issues where some html elements were appearing in a different order that was caused by placing elements in the index.html file.

The final project will have authentication and a to do list stored to a specific user. I need to figure out how to create to do data and connect it to a user.

I created the front end for the dashboard page. The user can add tasks mark them as complete and delete tasks. Now I need to connect these to the database so that when the user refreshes the page or logs out and back in, they can access the saved to do tasks. Ran into some issues when I was creating a “Welcome (username)” text. I solved it by getting the username from local storage.

21.12.2023

I somehow managed to get the to do list stored in a database. Now I need to load the stored data every time the user returns to their dashboard. Currently I have all the user data stored like this:

I assume it would be better practice to separate the user info (name, password etc.) and the user data (todos:[ ]) in a different database. However, I’m not quite sure how to do that and there won’t be much user data in this project.

I managed to get the user to do list from the database, it was harder than I expected. I tried to fetch the data without .map() that was causing the issue that I was having. I managed to load the to do list on the front end, so every time the user loads the dashboard page it shows the saved to do tasks.

Fixed a bug where trying to login with a correct username but an empty password would crash the app. Modified the home and profile pages of the app. Managed to fix the issue with flash messages appearing behind navbar. I changed the flash message element location in app.component.html. However I am unable to use CSS on them so they don’t look as good as I would like them to be.

Slightly changed the login and register page looks. I changed how to home page looks depending on if the user is logged on or not. Project finished.