Lappeenrannan teknillinen yliopisto

School of Business and Management

Software Development Skills

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LEARNING DIARY, BACK-END MODULE

LEARNING DIARY

29.12.2020

I logged to the course on moodle and read the general information and instructions.

I followed the environment setup, and continued to the "Back-end" -tab. I proceeded to study the first module. I watched through the video and learned the basic concepts of REST APIs.

Everything was pretty straightforward and I'm not too confused yet.

NodeJS

3.1.2021

In this chapter I learned the basics of NodeJS. Today I went through various examples of different methods involved with NodeJS and learned how to use them.

Many things that I learned were something that I knew that had to exist in order for many websites and apps to work, but I had always thought that it would be pretty complicated. It was actually a lot simpler than I thought

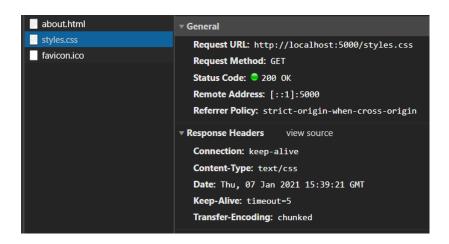
I probably don't have enough understanding yet how to completely put into account what I just learned but I'm sure I will figure everything out pretty soon.

With method 'os' I learned to access many kinds of data related to the users' devices that I didn't think I would have access to. This is surely something I will make use of in the future. At least for fun if nothing more valuable.

4.1.2021

I continued watching the tutorial and working along. I learned to create a live server from scratch, and got it running on my local machine. I had a little bit of trouble with the terminal and some commands, but nothing terrible.

With the help of the video I also discovered the 'network' tab in the console. It was pretty eye-opening to just play around with it.



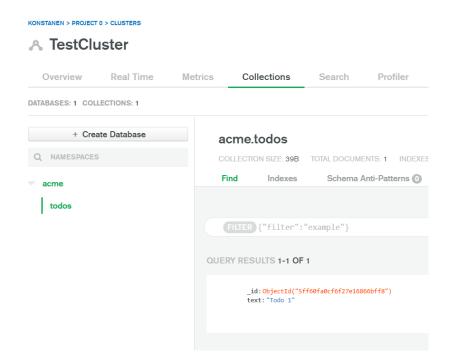
MongoDB

6.1.2021

In this chapter I learned the basics of MongoDB and a bunch of its commands. I had a little experience with databases, mySQL and also some PHP beforehand, but most of the concepts I learnt were mostly new to me. I learned to manage data in databases by reading, creating, updating and deleting.

I also connected mongo to my newly created atlas cluster and stored and managed the data there.

I did have some problems with starting mongo in the shell window. After following Mongo's documentation and some troubleshoot I managed to get everything to work. I also had some problems with atlas but it didn't take too long to figure it out.



ExpressJS

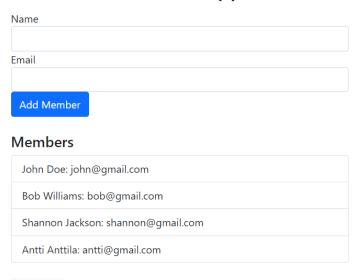
7.1.2021

Many things I got through this tutorial were the same or similar concepts as explained in the node.js tutorial. That's why I already had an understanding of some of the methods and tools.

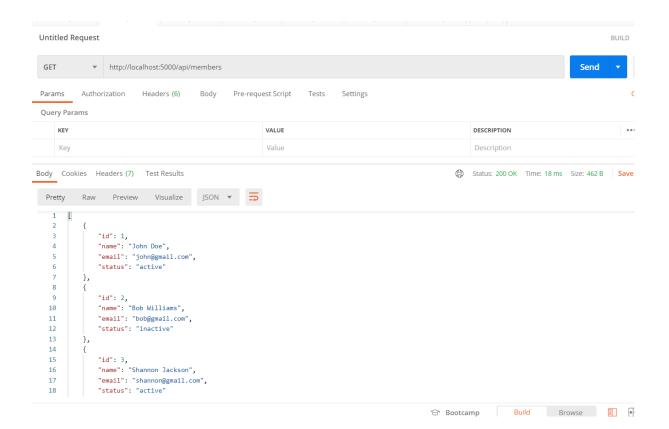
I learned more about setting up a local web server. I learnt about express middleware and then the tutorial again got through all the different http methods. I also learned to use Postman to handle and send these http requests.

In this chapter, rendering templates were also explained. With that section I learned how to actually display the processed data on a web page, and how to have working input fields on the page.

Member App



Visit API



REST API

12.1.2021

This chapter went through the concepts learned earlier, but used somewhat different methods and things. The video was really fast-paced and

THE PROJECT

The plan was to create a simple student information system. I actually did this multiple times but always had trouble deploying the project to heroku. Locally it worked like a charm, but heroku just did not work. After many days, I finally managed to get it working. I was exhausting, but the project works now as intended.

