Lappeenrannan teknillinen yliopisto

School of Business and Management

Software Development Skills

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LEARNING DIARY, <Software Development Skills: Back-End> 2021 Class.

**LEARNING DIARY**

03.02.2021  
  
First, I wish to acquire knowledge about software development skills (Back-End), because I have studied the front-end and both Front-end and Back-End working together. I enrolled in the course, read the course overview and general course information about the course in order to familiarize myself and get the main concepts about the course. I downloaded all recommended textbooks suggested in the environment setup in moodle. Listen to the REST Introduction Video, learned to know the meaning of API (Application Programming Interface) and REST (Representational State Transfer). Also, familiarize myself with the functionality of API in back-end concepts.

05.02.2021

I learned the way to use VS Code and node.js code to acquire different types of setting such as path, fs, os, URL. Also, I learned the method to get a link (href), hostname, pathname search, etc. from a website.

I learned some applications that are possible to build with Node.js, such as chat, games REST APIs, blogs, social applications, etc. Also, able to learn the definition or meaning of popular modules applications and languages such as Express, connect, Mongo/Mongoose, Coffee-Script, Redis.

06.02.2021 – 09.02.2021

I watch the video of the Node.js Crash course at this link (https://www.youtube.com/watch?v=fBNz5xF-Kx4), then get more information about the node.js, and through the node.js website, I learned series of code documentation.

I learned how to setup package.json with node.js, registered for Heroku, and setup Heroku, get more information on the language in the node.js docs section.

09.02.2021

I learned that MongoDB did not require a prior data structure, a data can be added to it as the case demanded.

To be able to use MongoDB, it was installed on my computer through the terminal app.

09.02.2021 – 10.02.2021

I learned some functions in using MongoDB through this Video {https://www.youtube.com/watch?v=-56x56UppqQ}, such as to post data, update data, insert data, delete data, find data, search information, sort and limit the search, count precise data, print a set of the report. Also, I learned more about MongoDB functions with Mongo data storage, such as the method to insert, create and find data or document with localhost in conjunction with MongoDB clusters cloud.

11.02.2021 – 12.02.2021

To be able to use Expressjs, I have to install the express.js and to able to follow the course. Also, I have to download Postman for the HTTP clients. I learned the functionality of Express.js concerning how to build the API, get data, put data, delete data, post data, copy data. I was able to lay my hand on the basic concept and usage of Express.js programming for Node.js. Also, at the time of learning processing, I observed that any little errors due to the spelling (typographical error) resulted in the program not running smoothly. Express.js was learned through this video[https://www.youtube.com/watch?v=L72fhGm1tfE].

15.02.2021 – 18.02.2012

I watched the video on how to work with REST API with node.js, express.js, and MongoDB. It was difficult to understand the language that each template engine recognized, such as handlebars, EJS, and HTML, due to various available versions of videos compared to the time, those videos are recorded. I have to search through the internet (Github) and many channels to find a solution for some problems.

Most of the time I have to search, read and listen to information through video and the internet before I can move forward.

Some of videos, website and books that I used list below:

1. <https://www.youtube.com/watch?v=esy4nRuShl8&list=PLZlA0Gpn_vH8jbFkBjOuFjhxANC63OmXM&index=6>
2. <https://www.youtube.com/watch?v=qj2oDkvc4dQ&list=PLZlA0Gpn_vH8jbFkBjOuFjhxANC63OmXM&index=5>
3. <https://handlebarsjs.com/guide/builtin-helpers.html#each>
4. <https://stackoverflow.com/questions/25564123/express-handlebars-show-flash-messages>
5. <https://github.com/WebDevSimplified/Mybrary/blob/v1.1/routes/authors.js>
6. <https://www.youtube.com/watch?v=fgTGADljAeg>
7. <https://www.youtube.com/watch?v=L72fhGm1tfE>
8. <https://link-springer-com.ezproxy.cc.lut.fi/book/10.1007%2F978-1-4842-2463-2>
9. <https://developer.mozilla.org/en-US/docs/Learn/Server-side/Express_Nodejs/mongoose>

19.02.2021 – 24.02.2021

I started to build application programming for storing staff information into a database (MongoDB). It was difficult in doing the application because of any error or typographical error resulted from the program not running the way it should be running.

I have to check some videos and the internet for guidance.

The REST application programming (API) was built to make a program for inserting personal information into a database, which their name, address, and their email. Age section is not included in this API, because is not required in most of the company to publicize the age of the staff. Also, this REST API can actually be used for storing equipment in a database.

The handlebars were used as a template engine, the API was built by Node.js, Express.js, and mongoose used as a database to organize and store the data.

For the proper running of this program by a third party, a mongoose atlas need to be installed.