

Lappeenrannan teknillinen yliopisto
School of Business and Management

Software Development Skills

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LEARNING DIARY, FULL-STACK 2022-23 MODULE

24/12/2022

I accessed the course and read the necessary information. As it is quite similar to the Front-End course, I started setting up everything. I decided to work on Windows using Visual Studio Code.

Creating the repository was quite simple, because it was the same process as last time for the other course.

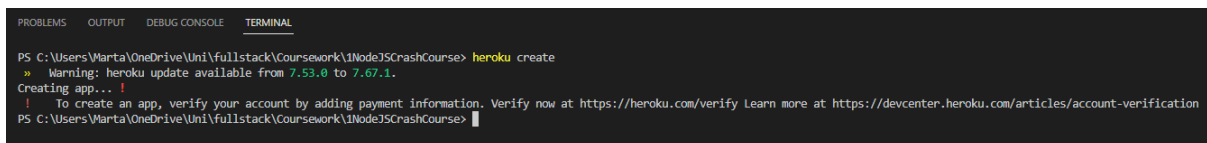
Node.js Crash Course

The start was quite simple to follow, as the Advanced Web Applications course also uses Node.js.

26/12/2022

The tutorial is easy to follow, though I ran into some issues due to spelling. The short rundown of the modules was quite useful. Learning about event, fs, http, os, path and url modules made me understand why a certain module would be required in different situations. Moreover, working with Express will be much easier after learning more about Node.js.

As it is necessary to add a payment method to Heroku, I did not deploy my application. However, I followed every step and noted down how the process would be if I used Heroku.



```
PS C:\Users\Marta\OneDrive\Uni\fullstack\Coursework\1\NodeJS\CrashCourse> heroku create
* Warning: heroku update available from 7.53.0 to 7.67.1.
Creating app... !
! To create an app, verify your account by adding payment information. Verify now at https://heroku.com/verify Learn more at https://devcenter.heroku.com/articles/account-verification
PS C:\Users\Marta\OneDrive\Uni\fullstack\Coursework\1\NodeJS\CrashCourse>
```

MongoDB Crash Course

To download MongoDB and use the shell, MongoDB Community Server <https://www.mongodb.com/try/download/community> and MongoDB Shell <https://www.mongodb.com/try/download/shell> are necessary.

When I was watching the tutorial and had downloaded MongoDB Community Server, I was not able to find mongo.exe on my computer. After looking up the solution online, I followed the first answer to this [stackoverflow question https://stackoverflow.com/questions/73081708/mongo-exe-not-installed-in-version-6-0-0](https://stackoverflow.com/questions/73081708/mongo-exe-not-installed-in-version-6-0-0), which solved the issue.

After trying to insert an object the warning: *DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite* appeared. I will use those commands in the future.

I also learnt that I can start or stop the MongoDB service throughout the Services console.

28/12/2022

It seems that `db.posts.find()` and `db.posts.find().pretty()` show similar results in the current version of mongosh.

When trying to update the message *MongoInvalidArgumentError: Update document requires atomic operator appears*. It seems that the functionality described in the tutorial has changed. Update can target individual properties of the DB document, while replace does change everything as the tutorial stated. Update cannot be used without an atomic operator like `$set` or `$inc`.

After trying to insert an object the warning: *DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite* appeared. Similar to the insert method. I will use those commands in the future.

I ran into some issues connecting to the cluster as PowerShell did not recognize mongosh as a command. I used this tutorial <https://databasefaqs.com/mongodb-is-not-recognized-as-an-internal-or-external-command/> to solve them. It seems I had forgotten to add the path.

I was using MongoDB from its shell application Mongosh by running `mongosh.exe`, however, it could also be run from the PowerShell. That may be the reason for some differences between what I was doing and the tutorial.

Finally, using MongoDB Compass, I exported the collection 'posts' as a json to the Coursework folder. I also added a screenshot of the collection 'todos' that was on the cluster.

Express JS Crash Course

I was already familiar with Express, as it is necessary in the Advances Web Applications course. This tutorial deepened my understanding. After learning about Node.js, Express becomes more understandable. In Express, there is less to handle but now I understand the logic behind it.

The tutorial taught how to create get, post, put and delete methods to check, update and delete information, among other things like the basis of Express. I found middleware creation especially interesting.

When using the Handlebars Middleware I ran into a small issue. I copied the specified code from the Handlebars github as the tutorial stated::

```
app.engine('handlebars', exphbs({defaultLayout: 'main'}));  
app.set('view engine', 'handlebars');
```

Which resulted in *TypeError: exphbs is not a function*. I solved this by reading this thread <https://stackoverflow.com/questions/69959820/typeerror-exphbs-is-not-a-function>. I just had to add `.engine`.

Working with Handlebars and Bootstrap was a good introduction to views.