Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

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LEARNING DIARY, Software Development Skills: Full-stack 2022-23

LEARNING DIARY

NodeJS

16.1.2023

I learned about node and which kind of projects is best to use it like blogs, social networks, real time services etc. I downloaded NodeJs on my computer. I learned why

npm init command is important and package.json file. I learned basic things about NodeJs like how to print something to terminal. I learned how to show file names or paths and create paths and objects with NodeJs. Some of the commands were familiar to me because of Linux terminal course. I learned how to call event. I also learned how to print Hello World in webserver. I learned how to make a simple page with text.

MongoDB

17.1.2023

I learned about,

what Mongo is, so it is a database for applications. I learned about how to read data, add data, sort, find, update and delete data. I learned about that Mongodb is more automated than sql.

ExpressJS

18.1.2023

I learned about,

that Express.js is fast and minimalist web framework for Node.js and it is not highlevel. It eases the work for building web applications. I learned about the basic syntax of a webserver. In this lecture, there were similar things to the previous NodeJs lecture so part of it was familiar. How to get url. I learned about members and what to do with them and how to create them.

Angular

19.1.2022

I learned how to download angular cli. I learned about Angular directives and components. I learned about pipes and a lot of things in general about Angular. But more I learned about that what Angular is used for and how it basically works. I think that I will learn Angular better when doing the project.

MEAN-Stack

20.1.2023

The first videos were just recapping things with js and how to open server. I learned again how to make different roats like pages. I learned how to make a register function for new user. I had a problem with connecting to the mongod database but it solved when replacing localhost by 0.0.0.0. I learned how to make passwords look different in the database with bcrypt, hash and genSalt. I learned how to use postman app to connect the database. I had problem with token and postman. I needed to do punch of things to get it work such as add express session. Here is a comment which I found from youtube and I did all these things to fix my code in video 4. "#1 Error: Login sessions require session support. #1.1 You need to install express-session in terminal: npm install express-session #1.2 You need to import express-session in app.js: const session = require('express-session'); #1.3 Add session middleware in app.js OLD: app.use(passport.initialize()); app.use(passport.session()); NEW: app.use(session({ secret: 'keyboard cat', resave: false, saveUninitialized: true, cookie: { secure: true } })) app.use(passport.initialize()); app.use(passport.session()); (You can change 'keyboard cat' if you want.) #2 Error: Expected "payload" to be a plain object. in routes/ users.js OLD: const token = jwt.sign(user, config.secret, { NEW: const token = jwt.sign({user}, config.secret, { #3 TypeError: ExtractJwt.fromAuthHeader is not a function in config/passport.js OLD: opts.jwtFromRequest = ExtractJwt.fromAuthHeader(); NEW: opts.jwtFromRequest = ExtractJwt.fromAuthHeaderWithScheme("jwt") #4 "Unauthorized" respons in Postman in config/passport.js OLD: User.getUserById(jwt_payload._id, (err, user) => { NEW: User.getUserById(jwt_payload.user._id, (err, user) => {".

22.1.2023

I learned how to protect profiles. I needed to change the node version so I learned how to do change it and it was also very problematic in the beginning. I got some error when trying to run ng start so I can't finish this project. I will try to make some new project because I could not solve my problems because the video is so old and I don't have enough skills to solve these problems because I got a problem after every step because the video is so old.

23.1.2023. – 26.1.2023

I learned how to install mongoose and express body-parser in terminal because in previous project they were installed in files manually writing to the package.json file. I like this terminal way because it is less writing. I learned again how to connect to the server and database. I learned again about creating routes and in these many tutorials which I watched they were created the same way. I was refreshened my memory about rest apis and how to use postman and mongodb together. I learned how to create get Api and how to create a code that deletes employees in this case and updates and so on. Now the backend part is ready and next thing is to create frontend which I hope to be easier. I have again problems with angular but finally I managed to get it right by using the "npm install –save-dev @angular-devkit/build-angular –force" command. I learned about how to connect angular to the webpage and how to create text there with html. I learned how to enable the cors policy so that the backend and frontend can be used. I learned how to create timestamps. I also learned about robot 3t system but I think it is kind of useless because you can do the same things with mongodb compass and visual studio code. I learned about how to use bootstrap themes.