

## **CT30A3203 Web Applications**

### **Introduction**

So, in my snippet app a user can do the basic stuff. Register, login, post snippet and comment on snippets. You can see snippets and comments even if you are not logged in.

### **Technology choices**

I decided to mostly use technologies that were taught during the course. As an example, backend was implemented with node.js and I also used express with it. Database was made with MongoDB as I was the most familiar with it.

Authentication is done by simple register and login. User simply has an email and a password. During login user gets an authentication token stored to local storage. I chose to use JWT for user authentication. User is authenticated every time when creating a new snippet or a comment. JWT was also taught during the course, so it felt the easiest to implement to the project.

For the frontend I decided to use React. I chose React mostly because I want to learn it better as it is used commonly. My frontend ended up being kind of poor and ugly looking since I ran out of time, but it has all the required features.

I used MUI library for the UI. As an example, the navbar and grids for snippets are done with it. It also gave responsive design for the app, so it is usable with mobile or desktop.

### **User manual**

User can register by clicking on register and it will take the user to the register page. User needs to enter an email and a password. There are no checks for how long a password should be, but email must be a real email.

After registering user can login. User is now able to post new snippets on the homepage or comment on snippets. To comment on snippet user must select one snippet by clicking on it, which will then take the user to a specific page for that snippet.

When clicking on logout user will logout of the app. It will also remove the saved JWT token from the local storage. It will also make the input fields for snippets and comments disappear.

## Installation

Run "npm install and after that "npm run app". The app should now open.

You need to create an .env file. It needs to contain SECRET=x. You can decide what the x will be.

Feature	Max Points
Basic features with well written documentation	25
Utilization of React	5

So, a total of 30 points.