Miro Rahkonen
0561542

Advanced web programming course project

Description

I used the express-generator for creating the application and pug-view engine for creating the webpage files. I also used the materialize library to make the website's design easy to customize elements and make use of their library of icons. The functionality of the website is done using JavaScript including different JavaScript libraries. The user authentication is done using jsonwebtokens, where the jwt-token is generated when logging in and it is stored in the browser's cookies using the localstorage-library, and it can be removed from the cookies when logging out. The token eventually becomes invalid after a certain amount of time. The browser cookies are checked when the jwt-token is needed for authentication.

The website's database is done through mongoose. The database has 3 different models for users, posts, and comments. I kept the comments as a separate model from the posts as the comments had quite a bit of data of its own and including the data in just the post would make it quite big. Each of the comments can be linked to its own post by storing the post's unique ID. I used the MongoDBCompass application to keep track of what is being stored in the database and it works well if you want to check what is being stored. Mongoose keeps the database in the address 'mongodb://127.0.0.1:27017/project'.

How to start the website

The source code for the project can be found here: GitHub

1. Download the source code as a zip file from the above link and then unzip it to your preferred location. The created folder should be named Adv_web_Project-main but it can be renamed to something else.
2. Open the created folder inside a terminal or Visual Studio Code, and run the command 'npm install', which will download all the necessary libraries in the package.json file.
3. The server can then be started with the command 'npm run dev', which creates a nodemon of the webpage. The website should now be fully functional.

Table of included features

Feature	Max points
Basic features (as stated in the previous chapter) with well written documentation	25
Users can edit their own comments/posts	4
In total:	29