CT30A3204 Advanced Web Applications Project Documentation

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About the project

The backend of the application was implemented with Node.js. I used the express framework.

In the application, users can register and login. Authentication was implemented with session-based authentication. Authenticated users can post code snippets and comment on posted code snippets. Comments can be shown/hidden by clicking on the title of a post. Non-authenticated users can see all posts and comments but cannot post new posts or comment on existing posts.

The application does not have a database. This is because I could not get the app to connect to the database. This is likely a problem on my end, because even with copy pasting the source code shown in the lectures it gave an error trying to connect to the database.

The application utilizes Materialize for responsiveness. The app should work on different sized screens.

I also created some tests using cypress (12 in total). Some of them are very simple like testing if the links work correctly. The tests can be found in this folder -> .cypress/e2e/.

I tested the accessibility of the application using google screen reader extension in chrome and it managed to read the whole website. I also tested the accessibility of the app using only a keyboard and I was able to cycle trough the interactable elements using tab (hiding the comments did not seem to work as it required clicking on the element).

User Manual

Server starts with command **npm start** and the server runs at **localhost:3000**

You can navigate around the application using the links at the top of the page.

To create new posts, the user must register and then login (if you try to create posts without logging in first, nothing will happen).

After logging in you can create posts and comment on existing ones. After creating a post (clicking the submit button), you will have to refresh the page to have the post appear.

Posts have an option to comment and comments can be shown/hidden by clicking on the title of the post. You will have to refresh the page to have new comments appear. The comments will appear under the code snippet.

List of features (and lack of features)

Feature	Points
Basic features and a well written documentation	25
Missing a database	-7
Automated testing (12 tests created using Cypress)	5
Software accessibility testing	2
Total	**25**