

My project report and documentation

CT30A3204 - Advanced Web Applications

GitHub repository: https://github.com/IT-miez/courseproject_advanced_web_applications

Video of the site: <https://youtu.be/p1Qmgj8Colw>

Basic requirements that are implemented

DESCRIPTION	DONE / AMOUNT OF POINTS
Implementation of backend with Node.js	done
Utilization of database	done
MongoDB, MariaDB or any other you see fit	done
Authentication	done
Only authenticated users can post, comment (or vote)	done
Post new code snippets	done
Comment on existing posts	done
Non-authenticated users can see posts, comments (and vote counts)	done
There is some page listing all the post, after opening one post, comments are also listed	done
Responsive design	done
Documentation	done
MANDATORY REQUIREMENTS	25

Additional requirements

Extra features	Points
Users can edit their own comments/posts	4
Utilization of a frontside framework, React	done, 5
Use some highlight library for the code snippets (highlight.js)	done, 2
Admin account with rights to edit all the post and comments and delete content (if a post is removed, all its comments should be removed too)	3
User can click username and see user profile page where name, register date, (user picture) and user bio is listed	done, 2
Last edited timestamp is stored and shown with posts/comments	2
Create (unit) tests and automate some (cypress.io used) (10 tests)	done, 5
TOTAL ADDITIONAL POINTS	14

TOTAL POINTS FROM ALL	25 + 14 = 39 points
------------------------------	----------------------------

How to run the project

To run the project, clone/download the folder from github and follow through the steps below

1. open three terminals
 - one for cypress tests
 - one for client
 - one for server
2. on 2 of the terminals, go to client folder (cd client)
3. on the third, go to server folder (cd server)
4. do **npm install** in server **and** client folder
5. after dependencies have installed, run **npm run dev** on server folder to open server
6. run **npm start** on client folder to open client
7. now the project should have server-side and client running
8. Project is running on localhost:3000, upper right corner has the button to go to all posts - page and login/register

To run tests:

1. to run tests, run **npm install cypress --save-dev** on the other terminal which has client folder opened on it (if it is not installed)
2. run **npm run e2e** in client folder (a script to start cypress)
3. open a browser through the cypress client
4. run available tests

Additional notes

- **a video of the project and tests will be found from this documentation** that goes through the page (in case it does not work for the one who examines the project)
 - link: <https://youtu.be/p1Qmgj8Colw>
- Cypress is used to run tests on the site (10 tests implemented, more detailed information found in the test files, commented and test names give info too)
- React is used in front-end
- MongoDB is used for database
- Node.js is used for running the backend