Hi Omer Shafrir, Hope you are well.

Following our conversation, I've attached the coding task here:

Tom is Josh's mentor for JS, but while Covid is still out there he prefers to do remote sessions. Tom wants to share with Josh a piece of code, observe him while he is writing and changing the code in real time.

Help Tom creating an online coding web application with the following pages and features:

Lobby page (no need for authentication):

The page should contain the title "Choose code block" and a list of at least 4 items which represents code blocks, each item can be represented by a name (for example - "Async case")

Clicking on an item should take the user to the code block page with the details of the code block he choo ses.

## Code block page:

Both users should enter this page. (2 different clients)

Assume that the first user who opens the code block page is the mentor, after that, any other user will be counted as a student.

The mentor will see the code block he choose with a read only mode. The student will see the code block with the ability to change the code. Code changes should be displayed in real-time (Socket). Use Highlight.js (or any equivalent library) to highlight the syntax (Support JS code only).

### General guidelines:

Code blocks should be created manually, no need for API or UI.

A code block should have the fields 'title' and 'code' (code is a string which represent JS code)

Add clear comments to the code where needed.

This task involves client server and DB, you can use any framework/language you want.

1. Deploy the project and supply the url for the app.

You can use any service you would like for hosting your deployment (There are many free services for that purpose - railway.app, Netlify, Vercel etc.)

2. Upload your code to GitHub and attach a link to your GitHub repository.

#### Bonus:

Have a "solution" on a codeblock object (also insert manually), once the student changes the code to be e qual to the solution, show a big smiley face on the screen:)

If you have any questions regarding the assignment do not hesitate to contact me over email or phone.

Good luck! Moveo's HR team

<sup>\*\*\*</sup>Submission instructions: \*\*\*

Application: Online coding web application

- · Next JS : Socket.io
- \* Mongo DB
- \* Vercel Hosting

1) Lobby Page - (landing page)

- Login mechanism (Authoritication) : optional
  - next Auth/custum session management with Cookies
- "thoose code block" button -

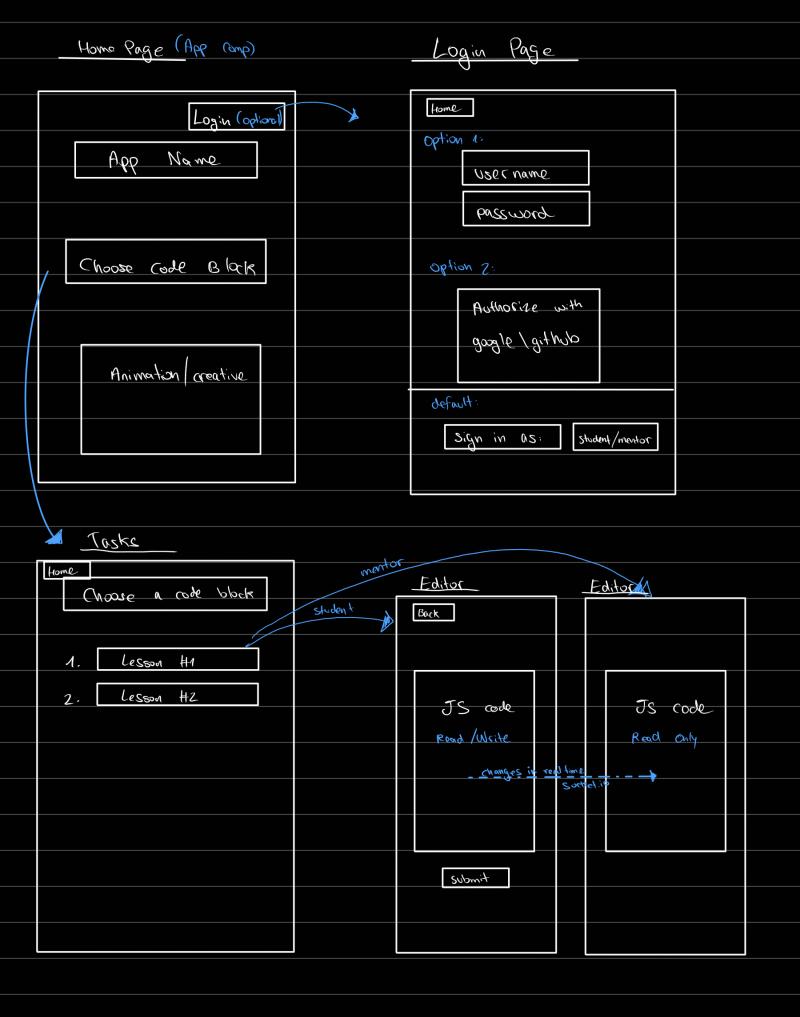
# 2) Login Page (Optional)

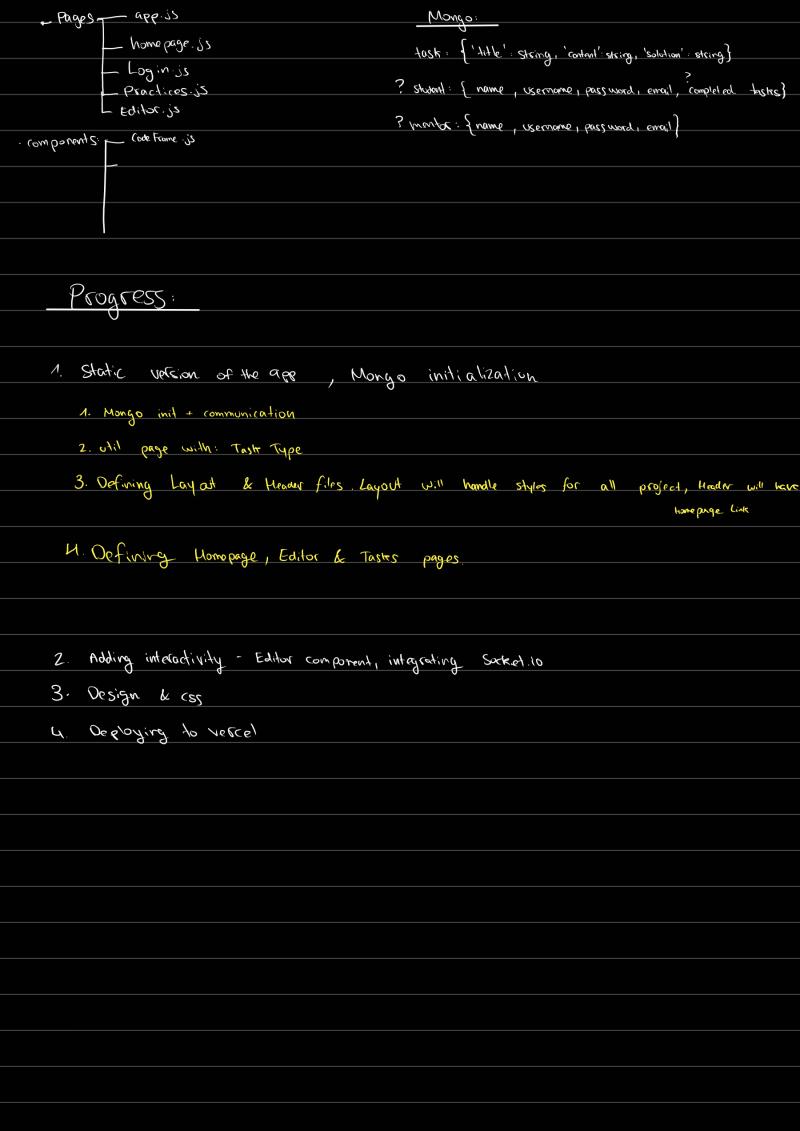
31 Tasks Page

- List of Js Tasks:
  - Each lesson redirects to Editor Page with chosen come block.
    - Lessons are fetched from Mongo database, into state holding Tosh Object: title, contents, solution

# 4) Editor Page

- Users sassion management:
  - 1st impl: first user to enter is mentor, second is student
  - 2rd impl: Both mentor & student registered: User critiq has type field: Montor or Student.
- Student Editor Page: Read-Write, real-time collaboration with Mantor via socket in (Mentor Read Only).
   text highlighting
- Submit Button: Compares JS Block with Solution (string Comparision). Success handling UJ





Duestions:

1) Can I use whatever packages a fameworks as I wish?

2) Do showe to stick to the structure provided in the task summary or can 5 implement it in a bil different way as seer fit, as long as my app will function as requested?

3) Should very app support more than 1 on 1 sessions at the same time?

If the answer is no: Implementation details as to how to hardle 3rx and 4th users ontering the app are left to me?

4) What Information should my app maintain? (things like student pagges, lasks completed rete.)