

## **Todo: create the mother of all todos**

### Technical Requirements

- Language: TypeScript
- Framework: React
- Backend: Node
- Database: Developers choice - must be able to reason why.

Technical requirements/user stories to implement:

It's not mandatory to implement all of the given user stories - use your own judgment to deliver the best user experience and a combination of user stories that - in your opinion - make sense in the time you have available.

Hand in time is end of the day friday.

- △ (required): I as a user can create to-do items, such as a grocery list
- △ (required): I as a user can create multiple to-do lists where each list has it's unique URL that I can share with my friends - so that I could have separate to do lists for my groceries and work related tasks
- △ (required): I as a user can mark to-do items as "done" - so that I can avoid clutter and focus on things that are still pending
- △ (required): I as a user can filter the to-do list and view items that were marked as done - so that I can retrospect on my prior progress
- △ (required): I as another user can collaborate in real-time with user - so that we can (for example) edit our family shopping-list together
- I as a user can add sub-tasks to my to-do items - so that I could make logical groups of tasks and see their overall progress
- I as a user can specify cost/price for a task or a subtask - so that I can track my expenses / project cost
- I as a user can see the cursor and/or selection of another-user as he selects/types when they are editing text - so that we can discuss focused words during our online call.
- In addition to regular to-do tasks, I as a user can add "special" typed to-do items, that will have custom style and some required fields:
  - "work-task", which has a required field "deadline" - which is a date
  - "food" that has fields:
    - required: "carbohydrate", "fat", "protein" (each specified in g/100g)
    - optional: "picture" an URL to an image used to render this item
- I as a user can change the order of tasks via drag & drop
- I as a user can move/convert subtasks to tasks via drag & drop
- I as a user can be sure that my todos will be persisted so that important information is not lost when server restarts
- I as an owner/creator of a certain to-do list can freeze/unfreeze a to-do list I've created to avoid other users from mutating it
- I as a user can keep editing the list even when I lose internet connection, and can expect it to sync up with BE as I regain connection