

Planning for implementing requested features

1. Due dates

user story

As a user I want to set deadline to my tasks and filter my tasks due today.

Tasks & Estimation

front-end:

1. Add date field to todo form (0.5 hour)
2. Add dateview to todo task view (0.5 hour)
3. If pagination is not implemented, filter tasks by due date on front-end (0.5 hour)

back-end:

1. Add date field to the function for creating todos (0.5 hour)
2. Add filtering todos by due date to the function for getting all todos (0.5 hour)

2. Supporting a large number of tasks

user story

As a user I want to see 20 tasks at first and get other tasks as I scroll down.

Tasks & Estimation

front-end:

1. Track offset and get next tasks when user scrolls down (1 hour)
2. In order to improve performance, use virtualized list. (1 hour)

back-end:

1. Add offset & limit to the function for getting tasks (0.5 hour)

3. Reordering tasks

user story

As a user I want to reorder tasks by drag and drop.

Tasks & Estimation

front-end:

1. Add "drag and drop" functionality (1 hour)
2. Optimistic update order of the tasks with the same algorithm as back-end in order to improve performance and UX (0.5 hour)

back-end:

1. Add index field to tasks and implement reordering algorithm and corresponding endpoint (1 hour)
2. Try to save the drag position so user can see the right order after pages refresh

***More Observations**

- i. There should be input validations so users can input only amount of texts and also the text field should be made to accept only texts
- ii. The form should throw a error and will not submit when the input fields are empty