

Basic use cases:

1. **Creating tasks:**

Users would likely want to add new tasks to their todo list.

2. **Reading tasks:**

Users would definitely need to read up on the tasks they have created. Some aspects which would help to improve readability includes having a title, and a separate component for the description of the task.

3. **Updating tasks:**

Users would likely need to update/edit the tasks they have created, due to typos and/or some change in their plans.

4. **Deleting tasks:**

Users would definitely want to remove tasks off their todo list once they have completed the task.

5. **Tagging tasks:**

Users may want to assign tags to their tasks, so that their todo list is neater and more organized. It is essential that users get to see the title of the tag after creating the task, so that the tag would serve its purpose of making the list tidier. Users may also want to update the tags to the tasks, and/or remove the tags, when necessary.

Some useful functionalities which may accompany tags include:

a. **Searching for a certain task:**

Users may want to search for a subset of tasks with a certain tag, e.g. tasks tagged with the tag "CS2040S". This would help to make the list neater and more readable.

b. **Sorting tasks based on tag:**

Users may also want to see all of their tasks at the same time, but in a sorted order based on the tags of the tasks. This would help users make better decisions on which task to complete first, and which tasks could be delayed.

6. **Searching tasks based on title:**

Users may also want to search for a particular task based on its title. A search function would greatly assist them should they want to find a task, but fail to remember its full title or description of the task.

7. Sorting tasks based on title:

Aside from sorting tasks based on tag, users may also want to sort tasks in alphabetical order, based on their title.

8. Due date for tasks:

Users may also want to set a due date for their tasks, to remind them on when they would need to complete their tasks by. Users may also want to read the due dates for each task which they have previously set, and modify or delete the due date for a particular task.

a. Sorting tasks based on time:

Users may also want to sort tasks based on the time it was added, or the time they are due. This would help to improve readability for the users, and help them with their decision-making.

9. Deleting all tasks from list:

Finally, if users decide to change all of their plans and would like to delete all of their current tasks on their todo lists, a “Delete All” button would help them save time, as compared to having to delete each individual task one by one.

Execution plan:

1. Backbone with basic CRUD operations would be set up first (points 1 to 4).
2. Tagging function would be setup next, by modifying all MVC components (point 5).
 - a. Enable users to add/modify a tag for each task during task creation/modification.
 - b. Enable users to read the tags after they have created the tasks.
 - c. Enable users to delete tags whenever necessary.
3. Add search and sort functionality for tags (points 5a and 5b).
4. Add search and sort functionality for titles (points 6 and 7).
5. Add due date for tasks, by modifying all MVC components (point 8).
 - a. Enable users to add/modify the due date for each task during task creation/modification.
 - b. Enable users to read the due date after they have created the task.
 - c. Enable users to delete due dates whenever necessary.
6. Add a button for users to delete all the tasks on their list.