

## Use case

System: TaskManager

Actor: User, unless specified

1. UC1 – creating task
  - a. Main Success Scenario (MSS)
    1. User requests to create a new task
    2. User provides all the compulsory fields for the new task
    3. TaskManager saves the details
    4. Use case ends
2. UC2 – editing task
  - a. MSS
    1. User requests to edit a task
    2. User edits the data for a task
    3. TaskManager saves the updated information
    4. Use case ends
3. UC3 – viewing tasks
  - a. MSS
    1. User requests to view all the tasks
    2. TaskManager displays all the tasks
    3. Use case ends
  - b. Extensions
    - 2a. TaskManager does not have any task to display  
TaskManager shows nothing and use case ends
4. UC4 – deleting task
  - a. MSS
    1. User request to delete a task
    2. TaskManager requests to confirm the action
    3. Use case ends

### Execution plan

1. Create a basic TaskManager which can execute CRUD
2. Implement sorting, and finding of tasks
3. Improve the UI for the displaying, creating and editing of tasks.
  - a. Add some colours and show more information about the tasks
  - b. Nicer due date selector
4. Separate the tasks by types
  - a. i.e. work-related/hobby/daily routines

### Optional tasks attempting to try

1. Reminders – show before the due date
2. Hosting it somewhere so it's available 24/7
3. Explore towards typescript and redux
4. Dockers

### Problems currently facing

The task manager I had in mind was one which could keep tabs on the different types of tasks. Hence, I created **Container** and **Task** model at the beginning of the project and established the association that **Task** should be contained in **Container**. As I had not thought of how to create best represent the **Container**, I was only working on **Task**. This redundant association early on causes lot of issues with the saving of **Task** objects into the database since **Container** is still a shell class. I had to run migration and rollback my database multiple times to identify this error.