**Use case**

System: TaskManager

Actor: User, unless specified

1. UC1 – creating task
   1. 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
   1. 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
   1. MSS
      1. User requests to view all the tasks
      2. TaskManager displays all the tasks
      3. Use case ends
   2. Extensions

2a. TaskManager does not have any task to display

TaskManager shows nothing and use case ends

1. UC4 – deleting task
   1. 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.