Laurent Huang (laurenthg)- Project Portfolio

Project: Le Duc

Overview

Leduc is a task management application geared to help high school students manage their academic and extracurricular workloads. The user enters commands via the command line and is able to perform a vast array of operations.

Summary of contributions

Code contribution:

https://nuscs2113-ay1920s1.github.io/dashboard/#=undefined&search=laurenthg

Features implemented:

Modify a task

- Implemented my biggest feature "modify a task". Several commands are implemented: `reschedule`, `postpone`, `snooze`, `edit` and `prioritize`.
    - snooze and postpone a homework task: `PostponeCommand` and `SnoozeCommand` with their Junit tests `PostponeCommandTest` and `SnoozeCommandTest`.
        - This command is important as the deadline of a homework could have to change.
        - Verification of that the new date is after the old one is made.
    - reschedule a event task: `RescheduleCommand` and its JUnit test `RescheduleCommandTest`
        - This command is important as a event could be moved to another date, could be extended ...
        - Verification of that the new event period have not conflict with other tasks is made.
    - Edit a task: `EditCommand` and its Junit `EditCommandTest` with the text-ui-test `test6` for the multi-steps part.
        - This command allows the user to edit the description or date/period of a task.
        - This is a primary command as a task description or date are likely changed if the user initially created a incorrect task.
        - This is managed either in a interactive way which the multi-steps command or in one shot command.

        - Verification of conflict dates for event task is made when the user wants to change the period of an event task.
        - With edit command, user is allowed to give a new date to a homework task which is earlier than the old one.
    - Prioritize a task: `PrioritizeCommand` and its Junit test `PrioritizeCommandTest`.
        - A priority field is added to each task. So, the user can now create a task with a priority of his choice (from 1 to 9) or the priority 5 by default.
        - This command allows to change the priority of a task and this is very important as the priority of a task generally increase with the time.

Sort the task list

- Implemented the second feature "sort the task list': `SortCommand` and `SortCommandTest`
    - This feature is very useful for the user as he could now see the task list either in the description, date or priority order.

Other contributions:

- **Gradle**
    - Set up and managed gradle : `build.gradle`
        - Gradle allows to manage the build for running, automate the Junit test and so improve the team productivity.
        - It allows also to generated the jar file
- **Manage releases**
    - Managed releases with setting for milestones in Github, creation of jar files for the different milestones thanks to gradle: `leduc-mid-v1.1.jar`, `leduc-v1.1.jar`, `leduc-v1.2.jar` and `leduc-v1.2.1jar`.
- **Manage Github**
    - Set up the labels and milestone.
    - Set up the issues corresponding to different user stories.
    - Set up the pull request for requiring reviews …
- **Community**
    - Reviews important pull request: #21, #25 …
- **Documentation contribution**
    - Write the Readme file `README.adoc`
    - Contribute to writing the User Guide file `[AY1920S1-CS2113-T16-1]-[Le Duc]-UG.adoc`
    - Contribute for writing the Developer Guide `[AY1920S1-CS2113-T16-1]-[Le Duc]-DG.adoc`

Contributions to the User Guide

Introduction

For each command description bellow, examples are provided in the user guide. Please refer to the user guide to see the examples.

Snooze a homework task : `snooze`

To snooze a homework task: `snooze INDEX` The snooze time is fixed at 30 minutes.

Postpone a homework task : `postpone`

To postpone a homework task: `postpone INDEX /by DATE`.

DATE is the new date of the homework task. The new date should be after the old one.

Reschedule an event task : `reschedule`

To reschedule an event task: `reschedule INDEX /at DATE - DATE`.

Be careful : when rescheduling an event, two dates can’t clash

Edit a task : `edit`

- Multi-steps command: to edit a task, follow these instructions:
  1. `edit`
  2. All of the tasks will be displayed, you have to choose a task INDEX
  3. Depending on the type of task:
     - If it is a todo task, you have to enter the new DESCRIPTION
     - If it is not a todo task, you have to choose 1) if you want to edit the description or 2) if you want to edit the date
       - Then, enter the new DESCRIPTION or the new DATE of the task
- For one shot command:
  - edit the description: `edit INDEX description DESCRIPTION`
  - edit the date of an homework task: `edit INDEX /by DATE`
  - edit the period of an event task: `edit INDEX /at DATE - DATE`

Sort by: `sort`

Sort all task by date/description/priority: `sort SORTTYPE`

SORTTYPE is either date, description, priority

Be careful:

- Sorting "by date" will sort tasks in chronological order
- Sorting "by description" will sort the descriptions in alphabetical order
- Sorting "by priority" will sort tasks in ascending urgency

Prioritize: `prioritize`

Giving priority to task: `prioritize INDEX prio INDEX`

The first INDEX is the task index

The second INDEX is the priority (goes from 0 to 9)

Be careful:

- The second INDEX can’t be less than 0 nor greater than 9.
- 0 is the less urgent, 9 is the most urgent
- When creating a task, specifying the priority is optional. When the priority is not specified, the task will automatically have a priority of 5.

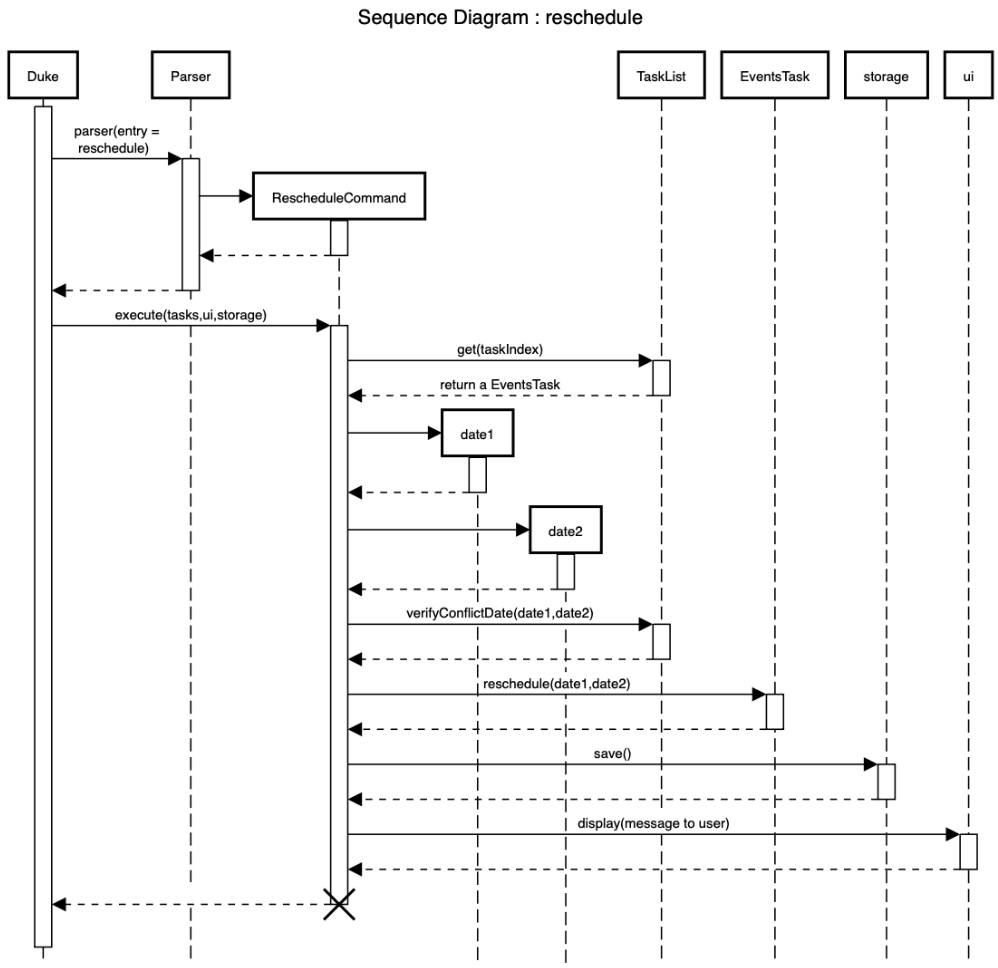
Contributions to the Developer Guide

Modify a Task

Several commands allow the user to modify a task: `reschedule`, `postpone`, `snooze`, `edit` and `prioritize`. As every other command, these commands extend Command. As these commands relate to the modification of tasks, each command need to write into the data file after its execution.

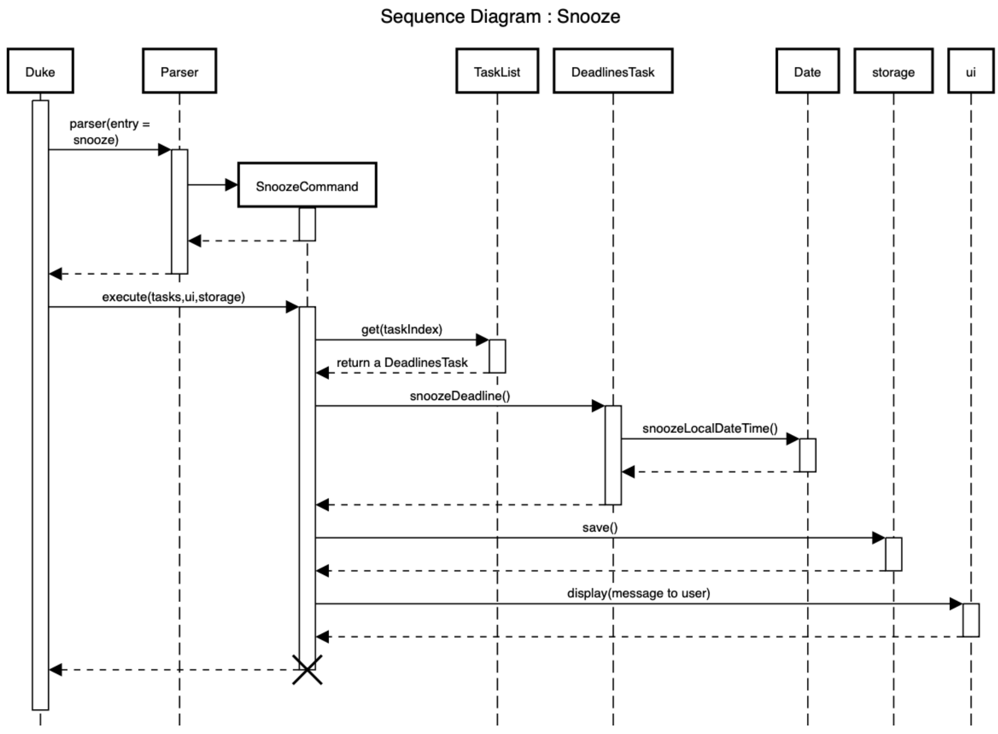
Reschedule an event task

When rescheduling an event, two dates can not clash. This verification is done with the verifyConflictDate method which is in the TaskList class. Indeed, all task dates are needed to verify if there is a conflict. So, this allows to improve the cohesion.



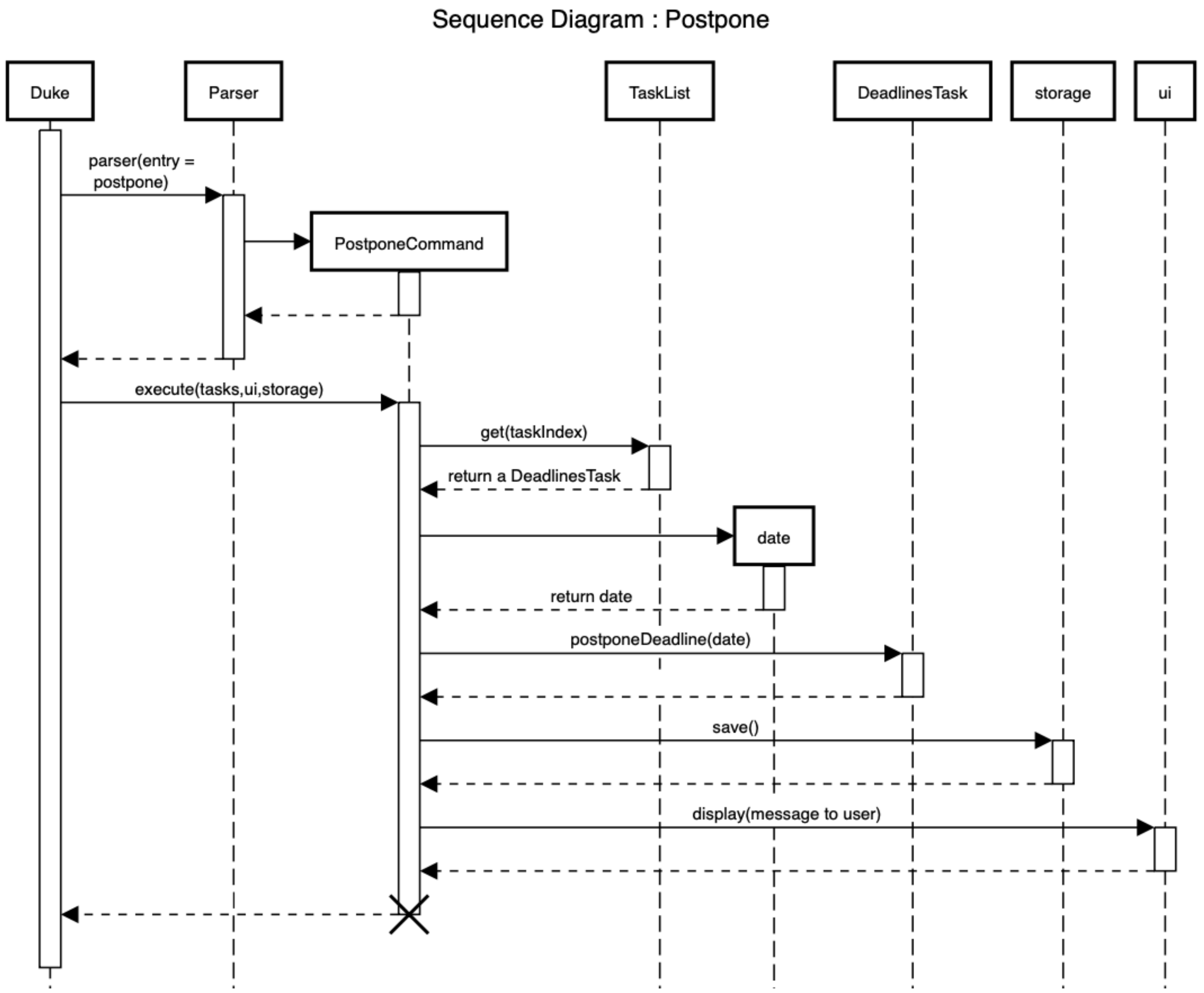
Snooze an homework task

Snooze is applicable to a homework task. The snooze time is fixed at 30 minutes(it could be easily changed in the snoozeLocalDateTime() method of Date.



Postpone an homework task

Postpone is also only applicable to a homework task. The new date should be after the old one. This is verified inside the execution of the postponeCommand.



Edit a task

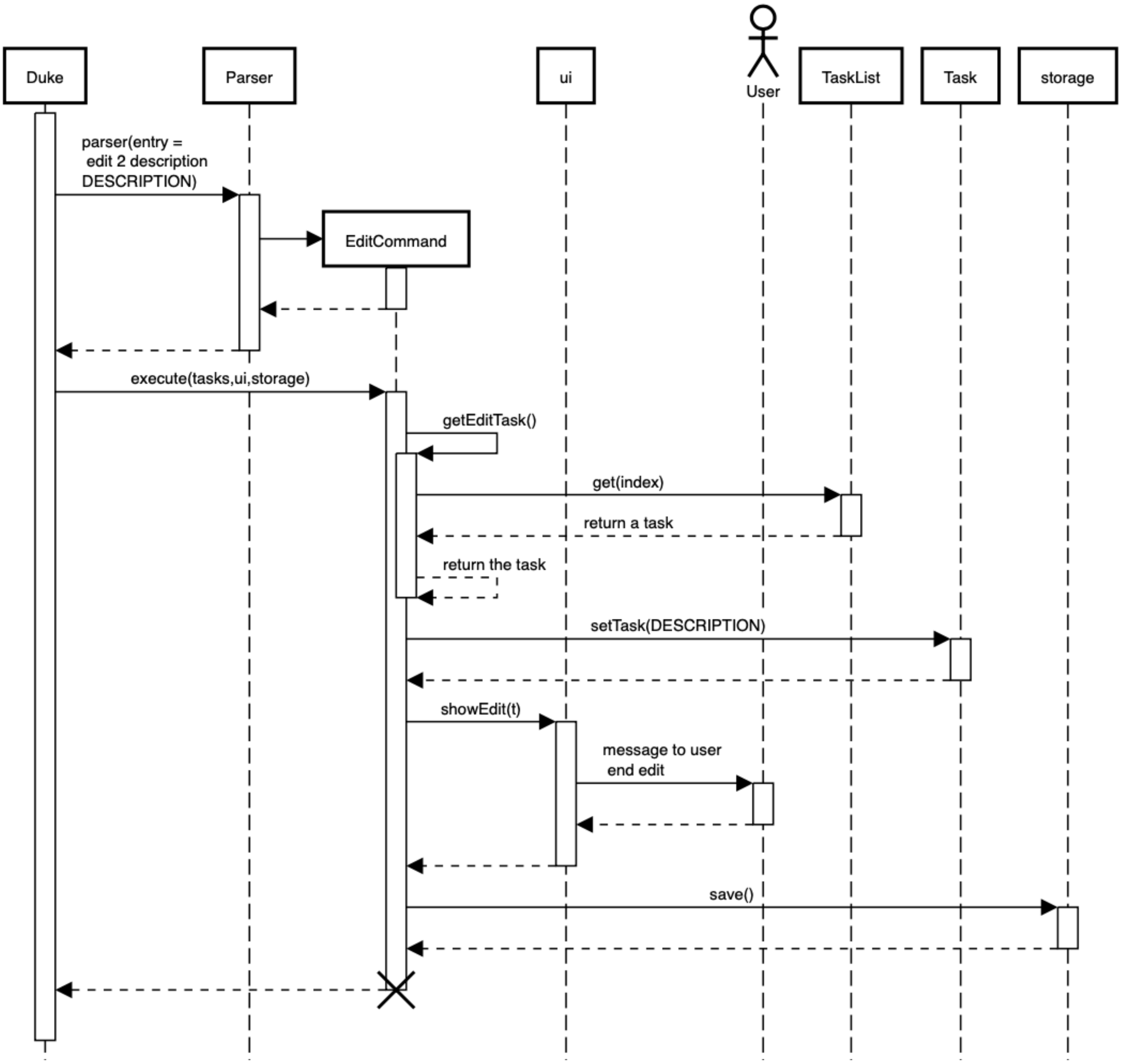
- Multi-steps command: to edit a task, the user has to follow these instructions:
  1. `edit`
  2. All of the tasks will be displayed, you have to choose a task INDEX
  3. Depending on the type of task:
     - If it is a todo task, you have to enter the new DESCRIPTION
     - If it is not a todo task, you have to choose 1) if you want to edit the description or 2) if you want to edit the date
       - Then, enter the new DESCRIPTION or the new DATE of the task

The sequence diagram shows the interactions between different classes when the user wants to edit the description of an homework or event task with a multi-steps edit command. **Please refer to the Developer Guide to find the Sequence Diagram for the edit command in multi-steps.**

- For one shot command:
  - edit the description: `edit INDEX description DESCRIPTION`
  - edit the date of an homework task: `edit INDEX /by DATE`
  - edit the period of an event task: `edit INDEX /at DATE - DATE`

The sequence diagram shows the interactions between different classes when the user input `edit 2 description DESCRIPTION`.

Sequence Diagram : Edit one shot

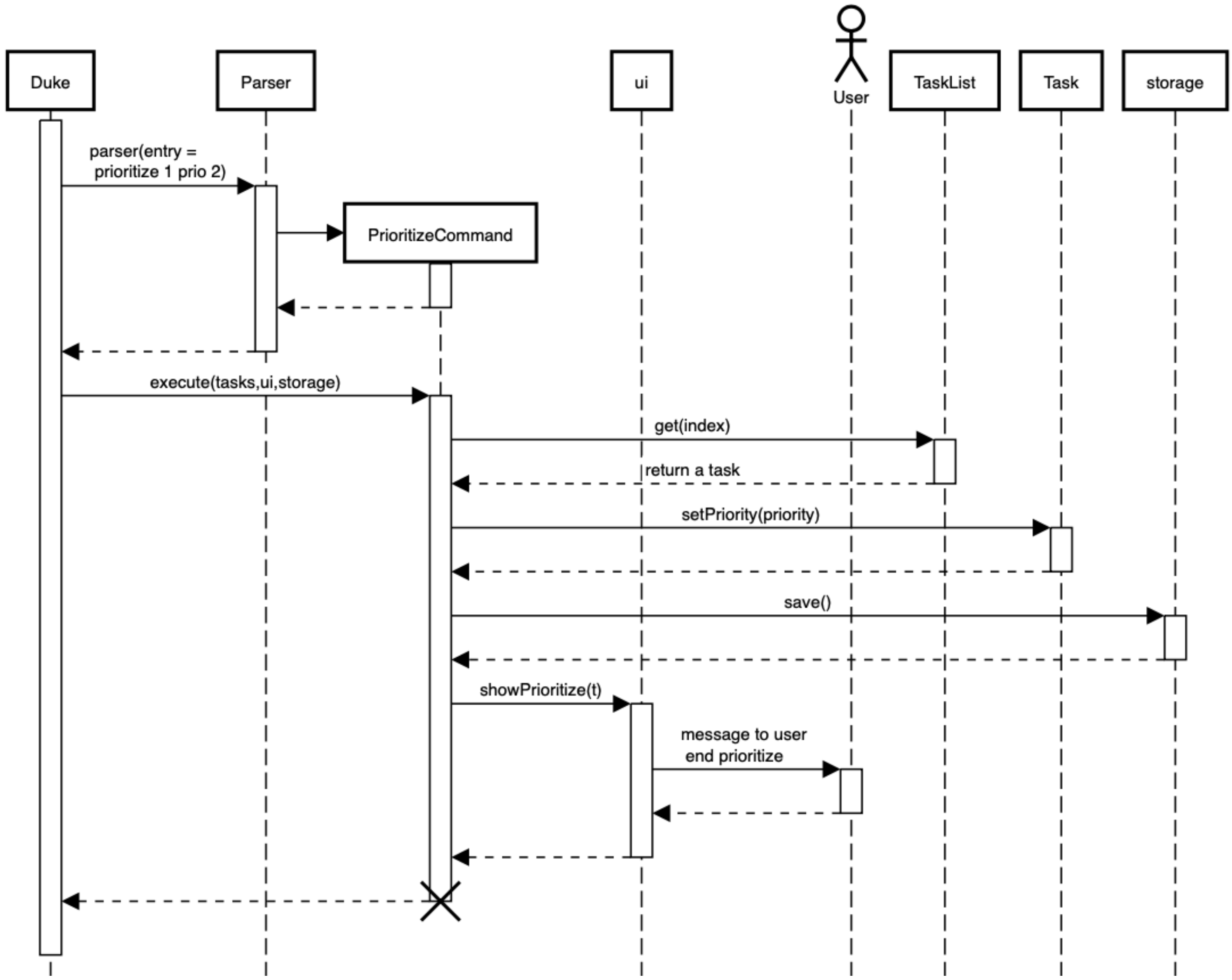


Prioritize a task

A task has initially a priority of 5. The priority of a task goes from 0 to 9. This command allows the user to change the priority of a task.

The sequence diagram show the interactions between different classes when the user wants to change to priority of the first task to 2.

Sequence Diagram : Prioritize



Consideration

There are two different commands for modifying the priority (`prioritize`) and the description/date (`edit`) of a task. Indeed, the edit command is considered to be used when a user have initially created a incorrect task, whereas the prioritize command is supposed to be used regularly as the priority of a task generally increase with the time. However, these two commands are obviously easy to combine into one command.

Sort the task list

Sort all task by date/description/priority: `sort SORTTYPE` SORTTYPE is either date, description, priority

- Sorting "by date" will sort tasks in chronological order
- Sorting "by description" will sort the descriptions in alphabetical order
- Sorting "by priority" will sort tasks in ascending urgency

To implement the sort command, the comparing static method of Comparator interface introduced in Java 8 is used. So, here the sort key are the desciption or the priority of the task.