

TSAI, HSIAO-HAN - Project Portfolio

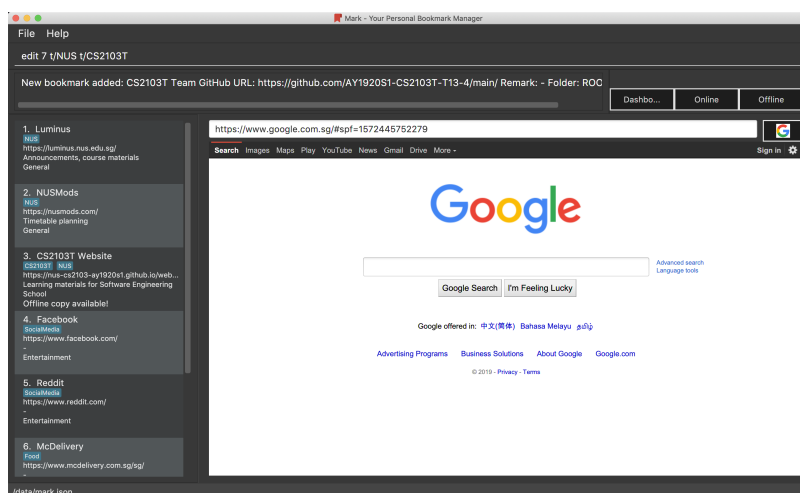
PROJECT: Mark

Overview

This document will introduce my role and contribution in Mark. Mark is a 6 weeks group project for the module CS2103T Software Engineering. Our team composed of 5 NUS Computer Science year 2 students. From this project, we learn the skill of designing a Java application with basic CRUD structure, working on git, distributing works on Github, negotiating and teamwork.

Mark is a *desktop bookmark manager* used for organising websites. This application can help the user organize websites by bookmarks, manage the bookmarks into folders, take note on the offline copy and set reminders for the task. The user interacts with Mark using a *Command Line Interface* (CLI), and it uses a *Graphical User Interface* (GUI) created with JavaFX. Mark is written in *Java*.

This is what our app looks like:



My role is to design and implement the **reminder** feature. The following section will illustrate more about this feature. More details about it are provided in the part of related User and Developer Guide.

Note the following symbols and formatting used in this document:

NOTE | Represents the things you need to notice.

reminder: Represents the command.

- **Tag**: Represents the constraints of the command.

Summary of contributions

- **Major enhancement:**

added **the ability to add, edit, delete and goto reminders**.

- What it does: allows the user to add a reminder to a specific bookmark. The reminder will remind users at the time they indicate. Users can also edit and delete it, or even using reminder to open the bookmark .
- Justification: When users want to plan to read or do some task on bookmark, this feature can provide them a better way to plan and organize their task, and they would not forget to doing it.
- Highlights: This feature will help the user automatically cleanup expired reminders after one hour, so they do not need to bother themselves to delete it. The notification will show up twice, the first time will show before five hour to leave users some time before the deadline. Even if users do not close the notification, the notification will disappear after one minute.
- Credits: [Stackoverflow](#) gives me the idea of how to implement a reminder notification.

- **Code contributed:**

Please click these links to see a sample of my code.[[Code](#)]

- **Minor enhancement:**

Improved current **edit** command so that when bookmarks changes the reminder will also change it's url.

Improved current **delete** command so that when a bookmark been deleted it's reminder will also deleted.

- **Other contributions:**

- Project management:
 - Check and merge pull requests on GitHub
- Enhancements to existing features:
 - Improve the GUI style and format (Pull requests [#228](#), [#123](#))
 - Wrote tests for existing features to increase coverage form 77.01% to 77.10% (Pull requests [#251](#))
- Documentation:
 - Added the reminder part for User Guide and Developer Guide: Pull requests [#48](#), [#53](#), [#130](#), [#162](#)
 - Edited About Us and Contact Us document: Pull requests [#24](#), [#26](#)
- Community:
 - PRs reviewed (with non-trivial review comments): [#66](#), [#133](#), [#139](#)
 - Reported bugs and fix issue (Issue [#229](#), [#194](#), [#178](#))
- Tools:
 - Integrated a third party library (ControlsFX) to the project (Pull requests [#42](#))

Contributions to the User Guide

This part is about the sections I contributed to the User Guide. The section extracted from the User Guide below showcase my ability to write a formal document to our target users.

----- *This is the start of extraction* -----

Reminders

The following commands carry out operations on reminders in Mark. You can find reminders on the Dashboard tab.

Adding a reminder: **reminder**

This command adds a reminder to a specified bookmark. The reminder will inform you at the time you indicate.

NOTE	You can have at most one reminder for one bookmark.
	The reminder cannot set the reminding time in the past.
	Each reminder will reminds you with popup notification twice:
	The first notification will show when the reminding time is within five hours, the second time is on the reminding spot.
	The expired reminder will be auto delete after one hour.

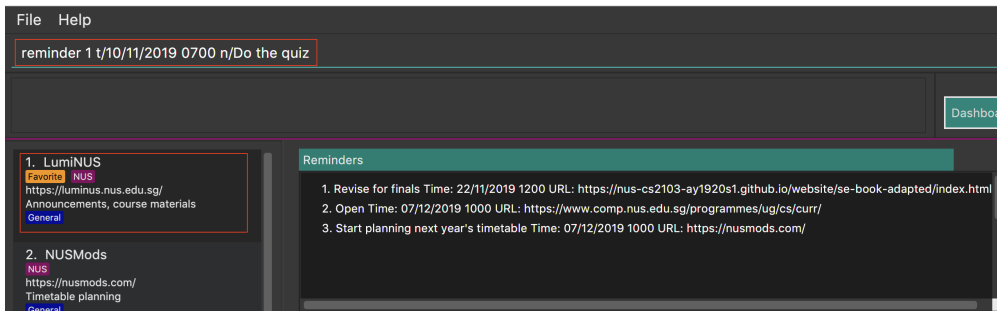
Format: **reminder** INDEX t/TIME_DATE [n/NOTE=Open]

For example:

You are using Mark, and you want to remind yourself to do the quiz on Luminus bookmark tomorrow night, which is 18/11/2019 8p.m. Now you can use the **reminder** command to add a reminder to Luminus.

To add a reminder:

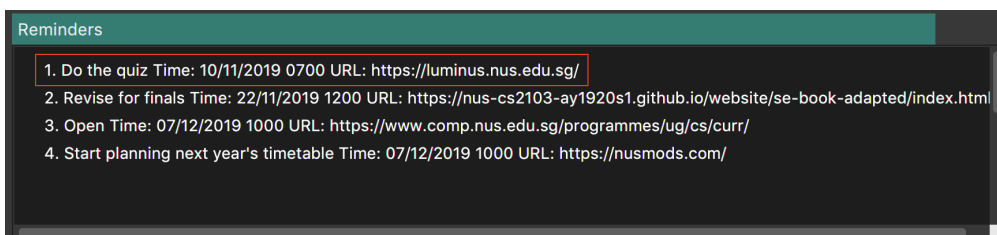
- The index of Luminus on reminder list is 1. You type the command **reminder 1 t/18/11/2019 2000 n/Do the quiz** into the command box and press *Enter* to execute it.



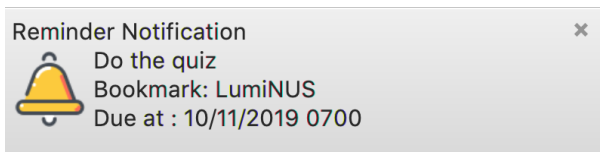
- The result box will show the message:
"New reminder added: Do the quiz Time: 10/11/2019 0700 URL:https://luminus.nus.edu.sg/"

New reminder added: Do the quiz Time: 10/11/2019 0700 URL: https://luminus.nus.edu.sg/

- The reminder is added to the reminder list.



- The notification will show up to inform you at the time.



There are some parameter constraints:

- **INDEX** is the index of the bookmark that you want to add with a reminder.
- **TIME_DATE** follows **dd/MM/uuuu HHmm** format. It should be a valid time.
- **NOTE** is the description of the reminder, the default value is Open.

Other examples:

- **reminder 1 t/02/07/2019 2359**
This command line adds a reminder for bookmark 1, and sets the time of the reminder as 23:59 of 02/07/2019. It reminds you to open the bookmark.
- **reminder 1 t/02/07/2019 2359 n/Read announcements**
This command line adds a reminder for bookmark 1, and sets the time of the reminder as 23:59 of 02/07/2019. The reminder reminds you to read announcements.

Editing a reminder: **reminder-edit**

This command edits the reminder in the list at the specified index. You can edit either the time or


the note of the reminder.

Format: `reminder-edit INDEX [t/TIME_DATE] [n/NOTE]`

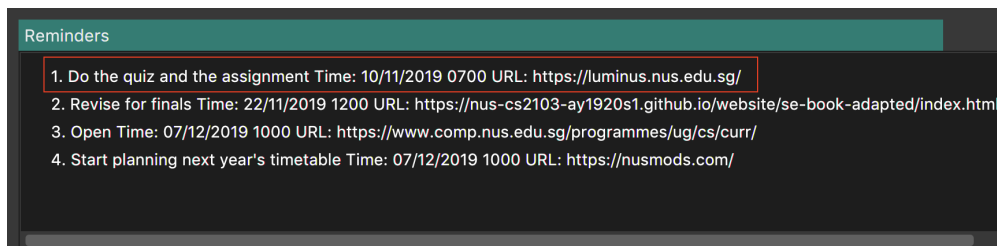
For example:

You have another assignment on Luminus that need to be done tomorrow morning, which is 10/11/2019 7 a.m. You want to change the note for reminder to remind you do the assignment. Now you can use the `reminder-edit` command to edit the reminder for Luminus.

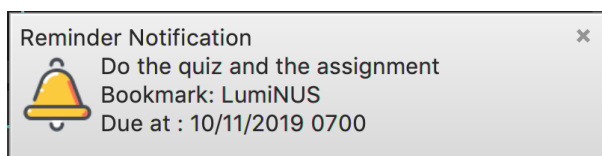
To edit a reminder:

- The index of the reminder in the reminder list is 1. You type the command `reminder-edit 1 n/Do the quiz and the assignment` into the command box and press *Enter* to execute it. 
- The result box will show the message:
"Edited Reminder: Do the quiz and the assignment Time: 10/11/2019 0700 URL:https://luminus.nus.edu.sg/"

- The reminder is edited in the reminder list.



- The edited notification will show up to inform you at the time.



There are some parameter constraints:

- `INDEX` is the index of the reminder you want to edit on the dashboard.
- `TIME_DATE` is the time you want to edit. The time follows `dd/MM/yyyy HHmm` format. It should be a valid time.
- `NOTE` is the description of the reminder that you want to edit.

Other examples:

- `reminder-edit 1 t/02/07/2019 2359`
This command edits the reminder of index 1. Reset the time of the reminder to 23:59 of

02/07/2019.

- **reminder-edit 1 t/02/07/2019 2359 n/Check daily news**

This command edits the reminder of index 1. Reset the time of the reminder to 23:59 of 02/07/2019. Reset the note to Check daily news.

Deleting a reminder: **reminder-delete**

This command deletes the the reminder in the reminder list at the specified index.

Format: **reminder-delete INDEX**

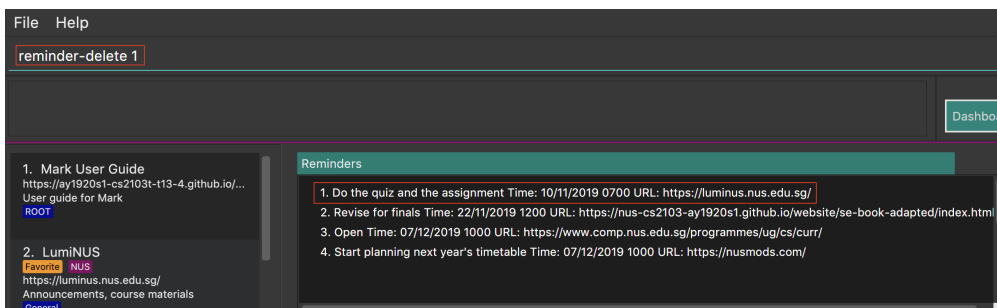
- **INDEX** is the index of the reminder you want to delete on the dashboard.

For example:

You finished your task on Luminus early, and you do not need the reminder for Luminus anymore. Now you can use the **reminder-delete** command to delete the reminder for Luminus.

To delete a reminder:

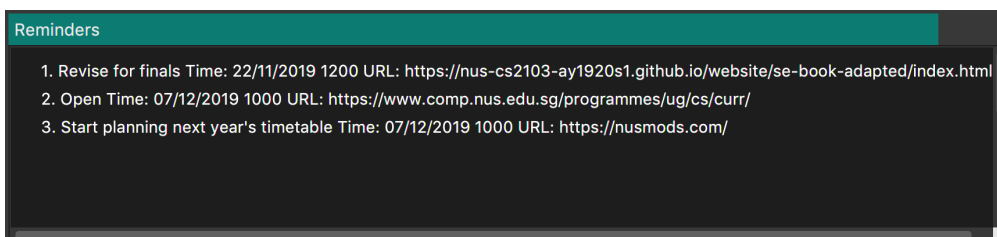
- The index of the reminder in the reminder list is 1. You type the command **reminder-delete 1** into the command box and press *Enter* to execute it.



- The result box will show the message:
"Deleted Reminder: Do the quiz and the assignment Time: 10/11/2019 0700 URL:https://luminus.nus.edu.sg/"

Deleted Bookmark: Do the quiz and the assignment Time: 10/11/2019 0700 URL: https://luminus.nus.edu.sg/

- The reminder is deleted in the reminder list.



Other examples:

- **reminder-delete 2**

This command deletes the reminder of index 2.

Opening a bookmark from a reminder: **reminder-goto**

Opens the related bookmark of the specified reminder from the bookmark manager.

Format: **reminder-goto** INDEX

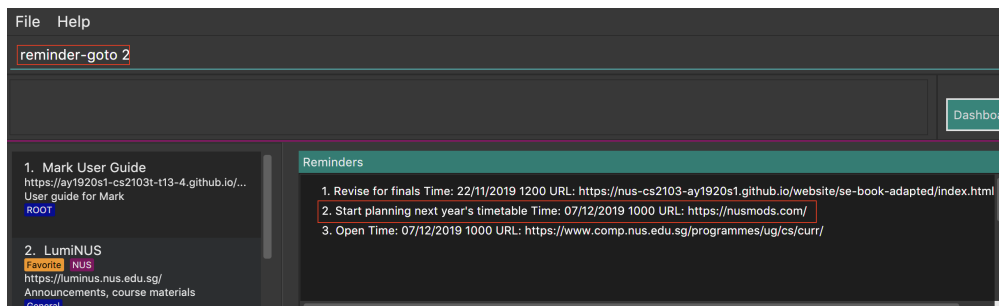
- INDEX is the index of the reminder as viewed on the dashboard.
- **INDEX** must be a positive integer 1, 2, 3, ...

For example:

You want to plan your time table for next semester, which is a task on reminder list. Now you can use the **reminder-goto** command to open the website.

To open the bookmark of a reminder:

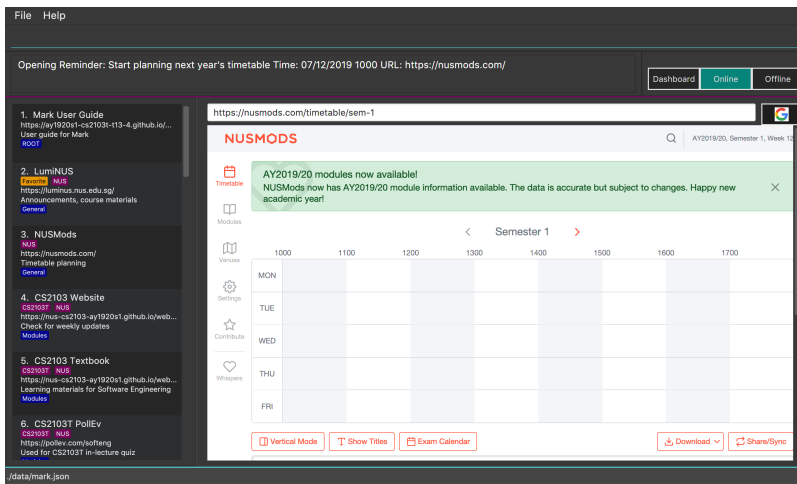
- The index of the reminder in the reminder list is 2. You type the command **reminder-goto 2** into the command box and press *Enter* to execute it.



- The result box will show the message:
"Opening Reminder: Start planning next year's timetable Time: 07/12/2019 1000
URL:https://nusmods.com/"

Opening Reminder: Start planning next year's timetable Time: 07/12/2019 1000 URL: https://nusmods.com/

- The tab will switch to Online and show NUSMODs website.



Other examples:

- **reminder-goto 1**

If reminder 1 points to bookmark 5, this command is equivalent to **goto 5**. (i.e. opens the 5th bookmark in the bookmark manager.)

Sorting bookmarks: **sort** [coming in v2.0]

Sorts the displayed bookmarks according to different criterion (name, order added) and displays them as a list.

Format: **sort** [CRITERION]

- **CRITERION** is the field you use to sort. Acceptable values of **CRITERION** are: **name** and **default**. **default** is sorting at the order when the bookmark is added.
- **CRITERION** is case insensitive, e.g. both URL and url are acceptable criterion.

Examples:

- **sort name**
Lists all the bookmarks based on name/alphabetical order.
- **sort default**
Sort all the bookmarks based on the order they were added.

----- *This is the end of extraction* -----

Contributions to the Developer Guide

This part is about the sections I contributed to the Developer Guide. The section extracted from the Developer Guide below showcase my ability to write a technical documentation to a developer and show technique depth of my contribution.

----- *This is the start of extraction* -----

Reminder feature

Implementation

A bookmark can attach a reminder, and a reminder can be used to open the bookmark and send notifications to the user. This mechanism is facilitated by **Reminder** and **ReminderAssociation**.

Reminder contains a reminding time, the **Url** of the **Bookmark** and a **Note**.

ReminderAssociation represents the association between **Reminder** and **Bookmark**, containing the relation from **Reminder** to **Bookmark** and **Reminder** to **Bookmark**.

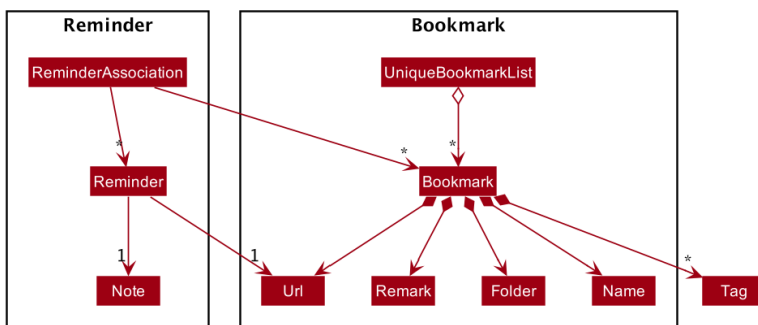


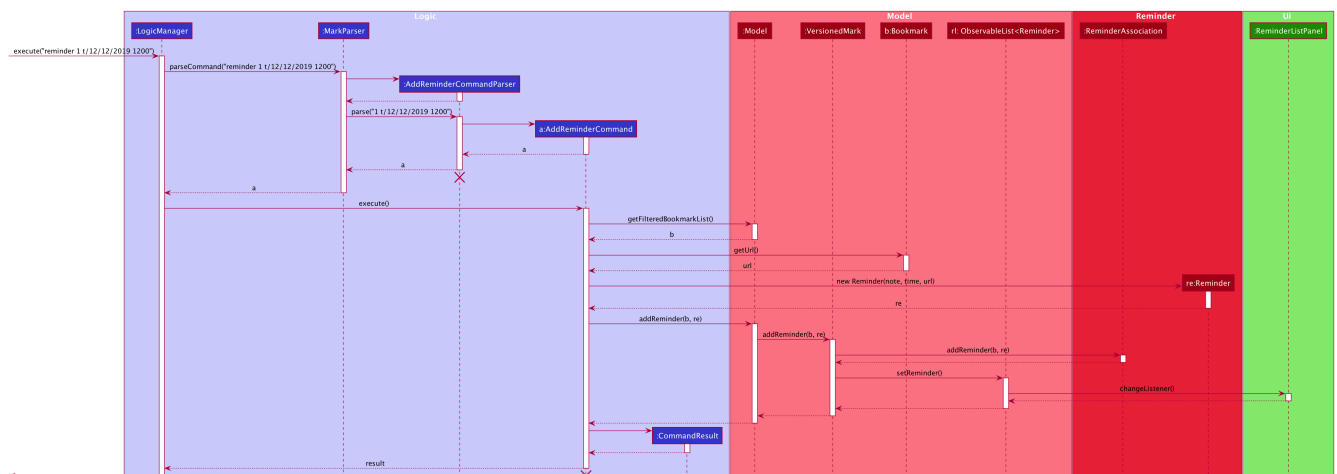
Figure 1. Class diagram of the Reminder component

There are four parts of the reminder feature:

- Add a reminder to a specific bookmark (executed by **AddReminderCommand#execute()**)
- Edit a reminder (executed by **EditReminderCommand#execute()**)
- Delete a reminder (executed by **DeleteReminderCommand#execute()**)
- Goto the bookmark of a specific reminder (executed by **GotoReminderCommand#execute()**)

These command are triggered by **reminder** command line entered into the command box, which will calls the respective command parser to create the command. The bookmark of the reminder will be retrieved and handled according to the command.

The following sequence diagram illustrates how the adding reminder operation works:



NOTE

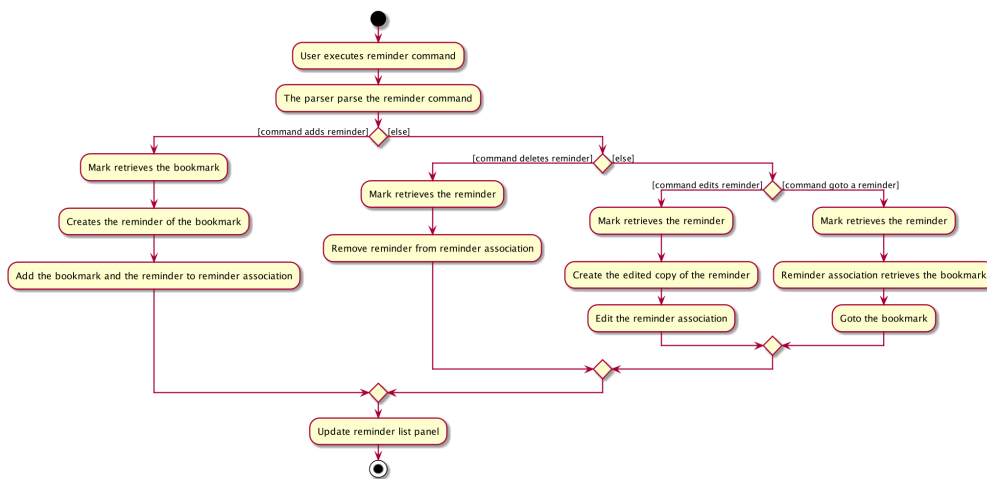
The lifeline for `AddReminderCommandParser` and `AddReminderCommand` should end at the destroy marker (X) but due to a limitation of PlantUML, the lifeline reaches the end of diagram.

In the `reminder-delete` command, instead of calling `addReminder(bookmark, reminder)` in Model, it will call `removeReminder(reminder)`.

In the `reminder-edit` command, instead of calling `addReminder(bookmark, reminder)` in Model, `EditReminderCommand` will create a edited copy of the target reminder and call `editReminder(target, editedReminder)` in Model.

In the `reminder-goto` command, it will retrieve the bookmark of the reminder and generate a `GotoCommandResult`. It works the same as `goto` command of the bookmark.

The following activity diagram summarizes what happens when a user attempts to use a reminder command:



Design Considerations

Aspect: How to represent the relationship between reminder and bookmark

- **Alternative 1 (current choice):** Use two hashmaps to store both the relationship from reminder to bookmark and bookmark to reminder.
 - Pros: More OOP and can easily find the relationship.
 - Cons: More complex when doing any operation to a reminder. Need to check two hashmaps.
- **Alternative 2:** Reminder is a field of bookmark.
 - Pros: Easier to implement.
 - Cons: Reminder is a field of bookmark, so using a reminder to open the bookmark violate the relationship.

----- This is the end of extraction -----