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AB-3

Developer Guide

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Setting up, getting started

Refer to the guide Setting up and getting started.

Appendix: Requirements

Product scope

Target user profile:

- NUS students
- has a hard time organising and planning what modules to take
- prefer desktop apps over phone apps
- can type fast
- prefers typing to mouse interactions
- is reasonably comfortable using CLI apps
- want to have a good way to check all MCs
- wants to have a good way to check all fulfilled pre-requisites
- wants to have a good way to plan for all their modules

Value proposition:

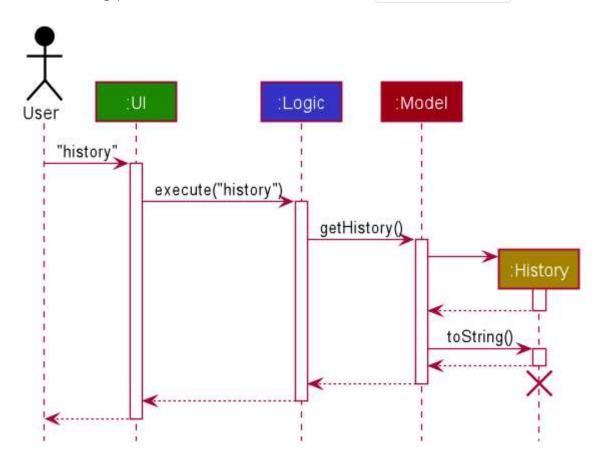
- managing study plan is much easier than existing choices (i.e. WHAT-IF report)
- planning for modules is more automatic/convenient than manual inputs (NUSMOD)

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Each semester's toString() method is called which internally calls each modules toString() method.

Overview: History command

The following presents a final overview of how the history command is used:



Do note that the current implementation always creates a new History instance whenever the history command is provided by the user, to ensure that users are presented with their most updated information.

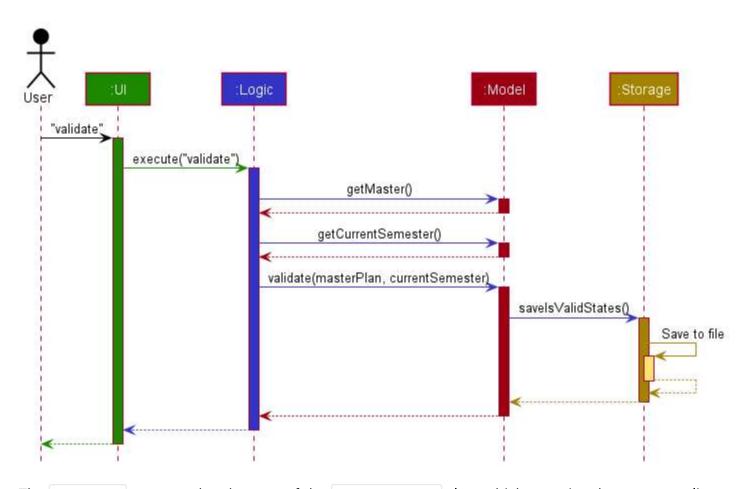
Validate feature

The validate command looks at all modules from the master plan, specifically all semesters from the first to current. Every other plan is then looked at the same way up to whatever semester that current is set to. For example, if current is set to semester 5, validate takes the first 5 semesters of modules from the master plan and compares it to every other plan. If the other plans have every module that was found in the master plan, it is valid.

Implementation

Overview: Validate command

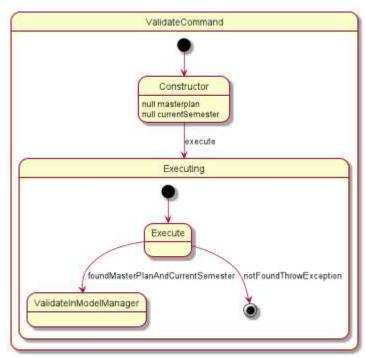
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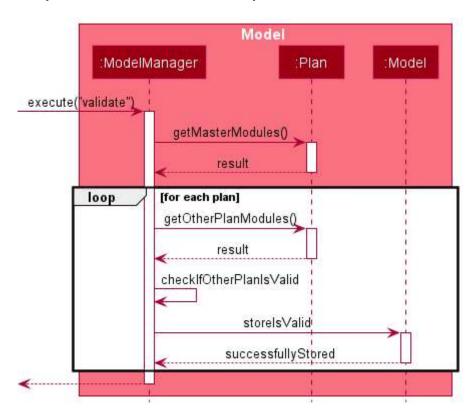
The validate command makes use of the ModelManager class which contains the necessary list of plan objects, which contains the relevant semester and module objects. After accessing the ValidateCommand logic component, if master and current is set, the ModelManager is accessed.

State Diagrams

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The validate command does not create other objects. It initializes with a null masterPlan and currentSemester, and updates them in the execute() method, throwing exceptions if they have not yet been set. If set successfully, validation continues.



In the ModelManager, the validate(masterPlan, currentSemester) method references every other existing Plan from the base master plan. The method then sets whether or not they are valid.

[Proposed] Validating using History object