Use Cases: Scheduler

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Title	**Schedule a proposed schedule of a program**
Actors	Administrator, Program Administrator, GUI, Scheduler, Database
Scope	GUI
Iteration	4
Precondition	System is running and user is logged in with the rights of an Administrator or Program Administrator.
Postcondition	System is still running, user is stilled logged in and if there was a previous proposed scheduling it is not lost due to database exceptions.
Postcondition on Success	The proposed schedule is inserted or updated into the database.
Basic Course of Events	(1) User opens schedule panel. (2) User selects the program to schedule by choosing a department and an academic term. (3) User clicks on start. (4) Scheduler launches the scheduling of the defined program. (5) Schedules changes its status to running. (6) User waits until the scheduling is finished by itself. (7) Scheduler inserts the proposed schedule into the database. (8) Scheduler changes its status to ready.
Alternative Paths	(6a) User clicks on stop. (7a) Scheduler changes its status to stopping. (7b) Scheduler updates the proposed schedule in the database. (8a) Scheduler inserts proposed schedule into the database. (9a) Scheduler changes its status to ready.
Open Questions	Q: Should the Program Administrator get a notification on his next login? A: Yes. Q: Will there be scheduling proposals for conflict resolutions? A: No, but the user will be informed about the reasons of the conflicts.
Implementation Notes	-

Title	**Change a proposed schedule manually**
Actors	Administrator, Program Administrator, Main Lecturer, GUI, Scheduler, Database
Scope	GUI
Iteration	4
Precondition	System is running and user is logged in with the rights of an Administrator, Program Administrator or Main Lecturer.
Postcondition	System is still running, user is stilled logged in and if there was a previous proposed scheduling it is not lost due to database exceptions.
Postcondition on Success	The proposed schedule is inserted or updated into the database.
Basic Course of Events	(1) User opens the timetable of a room. (2) User moves tcourse element instances to their new time slots. (3) User clicks on submit. (4) Scheduler calculates the score and potential conflicts. (5) GUI displays potential conflicts. (6) User clicks on accept. (7) Scheduler inserts the new proposed schedule into the datbase.
Alternative Paths	(3a) User clicks on discard. (4a) GUI reverses the changes and displays the original state. (6b) User clicks on discard. (7b) GUI reverses the changes and displays the original state. (7c) Scheduler updates the proposed schedule in the database.
Open Questions	Q: Should the Program Administrator get a notification on his next login? A: Yes. Q: Will there be scheduling proposals for conflict resolutions? A: No, but the user will be informed about the reasons of the conflicts.
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