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MUMSched: Use Case Description

Use Case Number: 1	
Name	User Profile CRUD
Brief description	This use case allows the admin to create profiles for faculty and student
Actors	Admin

Preconditions
The admin must logged in to the system

Flows of Events:

1. Basic Flows

1.1.0 Create Faculty Profile

Step	User Actions	System Actions
1	The admin calls the create faculty profile command	The system displays the faculty profile form with the fields for firstname, lastname, email, password, specializations, courses and blocks.
2	The Admin fills out the form and requests the system to save the details	The system verifies that there's no other profile in the database with the same email address and saves the faculty and returns the success message on success or a fail message in case of failure. In case another profile exists with the email address, the system returns the message indicating a duplicate entry exists.

Postconditions
The staff profile is persisted in the system

Business Rules
No duplicate faculty profiles. A unique profile is identified by email address.

1.1.1 Read/view Faculty Profile

Step	User Actions	System Actions

1	The admin selects to view a list of faculty profiles	The system returns a list of all faculty profiles.
2	The admin selects to view a profile of one of the faculty from the list of profiles	The system returns the profile of the faculty as a string with the names (firstname and lastname), email, specializations, courses and the blocks of preference.

1.1.2 Update Faculty Profile

Step	User Actions	System Action
1	The admin selects to view a list of faculty profiles	The system returns a list of all faculty profiles.
2	The admin selects the profile of the faculty they want to update	The system displays an editable faculty profile form pre-populated with the faculty profile details
3	The admin updates the fields they want to update and requests system to save the new details	The system updates the record and returns the success message or a fail message on exception.

Postconditions

The staff profile will be updated

Business Rule

The email field should be unwritable.

1.1.3 Delete Faculty Profile

Step	User Actions	System Actions
1	The admin selects to view a list of faculty profiles	The system returns a list of all faculty profiles.
2	The admin selects to delete a faculty profile from a list of faculty profiles	The system displays a confirmation dialogue window
3	The admin selects OK on the confirmation dialog window to confirm deleting the profile	The system confirms the faculty is not assigned to any sections or blocks and deletes the profile. The system returns message a success message on success or a failure message. The system should return a message indicating the profile could not be deleted because it is already assigned to some blocks and sections

Postconditions

The staff profile will be deleted

Business Rule

Only a faculty profile that is not assigned to any blocks or sections.

1.2.0 Create Student Profile

Step	User Action	System Action
1	The admin calls the create student profile command	The system displays the student profile form with firstname, lastname, registration number, email and initial password
2	The Admin fills out the form and requests the system to save the details	The system checks if no other student profile has the same registration number and email and saves the student, and displays a success message. The system returns a fail message on exception or a duplicate entry message in case of a duplicate.

Postconditions

The student profile is persisted in the system

Business Rules

No duplicate student profiles. A unique profile is identified by email address and registration number.

1.2.1 Read/view Student Profile

Step	User Actions	System Actions
1	The admin selects to view a list of student profiles	The system returns a list of all student profiles.
2	The admin selects the profile they want to view.	The system returns the profile of the student as a string with names (firstname, lastname), registration number and email.

1.2.2 Update Student Profile

Step	User Actions	System Action
1	The admin selects to view a list of student profiles	The system returns a list of all student profiles.
2	The admin selects the profile of the student they want to update	The system displays back an editable form with the student profile details pre-filled.
3	The admin updates the parts they want to update and requests system to save the new details	The system updates the record and returns a success message or a fail message on exception.

Postconditions

The student profile will be updated

Business Rule

The registration number and email fields should be unwritable

1.2.3 Delete Student Profile

Step	User Actions	System Actions
1	The admin selects to view a list of student profiles	The system returns a list of all student profiles.
2	The admin selects to delete a student profile they want	The system displays a confirmation dialogue window
3	The admin selects OK on the confirmation dialog window to confirm deleting the profile	The system checks to confirm the student is not assigned to any sections and deletes the profile and returns a success message or a fail message on failure. It must also return a specific message when the student is assigned to some sections.

Postconditions

The student profile will be deleted

Business Rule

The student must have not been assigned to any of the sections.

Use Case Number: 2	
Name	Course CRUD
Brief description	This use case provides a functionality for managing courses
Actors	Admin

Preconditions
The admin must logged in to the system

Flows of Events:

1. Basic Flows

1.0 Create Course

Step	User Actions	System Actions
1	The admin calls the create course command	The system displays the course form with name, code and pre-requisites
2	The Admin fills out the form and requests the system to save the details	The system verifies there's no other course with the same code and saves the course and returns a success message or a fail message in case of an exception. It should return a specific message when a duplicate course exists.

Postconditions
The staff profile is persisted in the system

Business Rule
No two courses can have the same code.

1.1 Read/view Course

Step	User Actions	System Actions
1	The admin requests for a list of courses	The system returns a list of all courses.
2	The admin selects to view a course they want from the list.	The system returns the course object as a string with course code, and course name

1.2 Update Course

Step		
1	The admin requests a list of courses	The system returns a list of courses.
2	The admin selects the course they want to update	The system displays an editable form with the course details

3	The admin changes the parts they want to update and requests system to save the new details	The system updates the course and returns a success message or a fail message on exception.

Postconditions

The course details will be updated

Business Rule

The course code should be unwritable.

1.1.3 Delete Course

Step	User Actions	System Actions
1	The admin requests for a list of courses	The system returns a list of all courses.
2	The admin selects to delete a course from a list of courses	The system displays a confirmation dialogue window
3	The admin selects OK on the confirmation dialog window to confirm deleting the course	The system confirms the course is not assigned to any sections and deletes and returns a success message or a fail message on exception.

Postconditions

The course will be deleted

Business Rule

The course must not have been assigned to some section

Use Case Number: 3	
Name	Block CRUD
Brief description	This use case provides a functionality for managing blocks
Actors	Admin

Preconditions
The admin must logged in to the system

Flows of Events:

1. Basic Flows

1.0 Create Block

Step	User Actions	System Actions
1	The admin calls the create block command	The system displays the create block form with name, sequence number, start date and end date.
2	The Admin enters the block start and end dates, the block identifier number, and a name and requests the system to save the details	The system checks if there's no other block with same name, start and end dates and saves the block and returns a success message or a fail message on failure. It should return a specific message when a duplicate block exists.

Postconditions
The block is persisted in the system

Business Rules
A block must be unique. A unique block is identified by the name and the start and end dates

1.1 Read/view Block

Step	User Actions	System Actions
1	The admin requests for a list of blokcs	The system returns a list of all blocks.
2	The admin selects to view a block they want	The system returns the block object as a string with block name, start and end dates

1.2 Update Block		
1	The admin requests for a list of blocks	The system returns a list of all blocks.
2	The admin selects the block they want to update	The system displays back an editable form with

		the block details pre-populated
3	The admin changes the parts they want to update and requests the system to save the new details	The system updates the block record and returns a success message or a fail message on exception.

Postconditions

The block details will be updated

Business Rule

The name, start and end dates should be unwritable.

1.1.3 Delete Block

Step	User Actions	System Actions
1	The admin requests for a list of blocks	The system returns a list of all blocks.
2	The admin selects to delete the block they want	The system displays a confirmation dialogue window
3	The admin selects OK on the confirmation dialog window to confirm deleting the block	The system checks that the block is not linked to any section and deletes the it and returns a success message or a fail message on an exception. Otherwise, it will return a message indicating the block is associated to some sections.

Postconditions

The block will be deleted

Business Rule

The block must not be linked to some sections