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MUMSched: Use Case Description

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Use Case Number: 1	
Name	Manage user profile
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

Step	User Action	System Action
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

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Business Rules

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

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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	Manage entries
Brief description	This use case provides a functionality for managing entries
Actors	Admin

Preconditions
The admin must logged in to the system

Flows of Events:

1. Basic Flows

1.0 Create Entry

Step	User Actions	System Actions
1	The admin calls the create entry command	The system displays the create entry form with name, sequence number, start date and end date.
2	The Admin enters the entry start and end dates, the entry identifier number, and a name and requests the system to save the details	The system checks if there's no other entry 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 entry exists.

Postconditions
The entry is persisted in the system

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

1.1 Read/view Entry

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

1.2 Update Entry

1	The admin requests for a list of entries	The system returns a list of all entries.
2	The admin selects the entry they want to update	The system displays back an editable form with the entry 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 entry record and returns a success message or a fail message on exception.

Postconditions

The entry details will be updated

Business Rule

The name, start and end dates should be unwritable.

1.1.3 Delete Entry

Step	User Actions	System Actions
1	The admin requests for a list of entries	The system returns a list of all blocks.
2	The admin selects to delete the entry 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 entry is not linked to any block and deletes the it and returns a success message or a fail message on an exception. Otherwise, it will return a message indicating the entry is associated to some blocks.

Postconditions

The entry will be deleted

Business Rule

The entry must not be linked to some blocks

Use Case Number: 3	
Name	Manage blocks
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 schedule 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 schedules.

Postconditions

The block will be deleted

Business Rule

The block must not be linked to some schedules

Use Case Number: 4

Name	Manage sections

Brief description	This use case provides a functionality for managing sections

Actors	Admin

Preconditions

The admin must logged in to the system

Flows of Events:

1. Basic Flows

1.0 Create Section

Step	User Actions	System Actions
1	The admin calls the create section command	The system displays the create section form with sequence number, day of the week , time of day and professor.
2	The Admin enters the section details requests the system to save them	The system checks if there's no other section with the same day of week, time of day and professor and saves the bloc

Postconditions

The section is persisted in the system

Business Rules

A section must be unique. A unique section is identified by the day of the week , time of the day and professor

1.1 Read/view Section

Step	User Actions	System Actions
1	The admin requests for a list of sections	The system returns a list of all sections.
2	The admin selects to view a section they want	The system returns the section object as a string with section details

1.2 Update Section

1	The admin requests for a list of sections	The system returns a list of all sections.
2	The admin selects the section they want to update	The system displays back an editable form with the section 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 section record and returns a success message or a fail message on exception.
Postconditions		
The section details will be updated		

Business Rule	
The section details should be unwritable.	

1.1.3 Delete Section

Step	User Actions	System Actions
1	The admin requests for a list of sections	The system returns a list of all sections.
2	The admin selects to delete the section they want	The system displays a confirmation dialogue window
3	The admin selects OK on the confirmation dialog window to confirm deleting the section	The system checks that the section 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 section is associated to some sections.

Postconditions
The section will be deleted

Business Rule
The section must not be linked to some blocks

Use Case Number: 5	
Name	Manage courses
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

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: 6

Name	Manage schedules
Brief description	This use case provides a functionality for managing schedules
Actors	Admin

Preconditions

The admin must logged in to the system

Flows of Events:

1. Basic Flows

1.0 Create Schedule

Step	User Actions	System Actions

1	The admin calls the create schedule command	The system displays the schedule form with sequence code with list of available blocks
2	The Admin fills out the form and link the blocks to the schedule and requests the system to save the details	The system verifies there's no other schedule details returns a success message or a fail message in case of an exception. It should return a specific message when a duplicate schedule exists.

Postconditions

The schedule is persisted in the system

Business Rule

No two schedule can have the same code and same list of blocks.

1.1 Read/view Schedule

Step	User Actions	System Actions
1	The admin requests for a list of schedules	The system returns a list of all schedules per entry.
2	The admin selects to view a schedule they want from the list.	The system returns the schedule object as a string with code and list of blocks associated with.

1.2 Update Schedule

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

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

Postconditions

The schedule details will be updated

Business Rule

The schedule code should be unwritable.

1.1.3 Delete Schedule

Step	User Actions	System Actions
1	The admin requests for a list of schedules	The system returns a list of all schedules.
2	The admin selects to delete a schedule from a list of schedules	The system displays a confirmation dialogue window
3	The admin selects OK on the confirmation dialog window to confirm deleting the schedule	The system confirms the schedule returns a success message or a fail message on exception.

Postconditions

The schedule will be deleted

Business Rule

Use Case Number: 7

Name	Login
Brief description	This use case provides a functionality for user logging
Actors	Admin Faculty Student

Preconditions

No precondition required

Flows of Events:

1. Basic Flows

1.0 Login

Step	User Actions	System Actions
1	The user request the login form	The system displays the login form with email address and password

2	The user fills out the form and requests the system to log in through submit button	The system verifies if the login details matches the data persisted and returns a success message or a fail message in case of an exception. It should return a specific message when a the user doesn't exist or password doesn't match.

Postconditions

The user login into the system

Business Rule

Use Case Number: 8

Name	view schedules

Brief description	This use case provides a functionality for viewing schedules

Actors	Faculty Student

Preconditions

The used must be logged in to the system

Flows of Events:

1. Basic Flows

1.0 view Schedules

Step	User Actions	System Actions
1	The user request the list of schedules	The system displays the list of schedules as a response to the request

Postconditions

None

Business Rule

Users except admin don't have the right to manage schedules.

Use Case Number: 9	
Name	Manage profile
Brief description	This use case allows the faculty and student to manage their profiles
Actors	Faculty Student
Preconditions	
The user must be logged in to the system	
Flows of Events:	
1. Basic Flows	
1.1.1 Read/view Profile	

Step	User Actions	System Actions
1	The user selects to view his profile	The system returns user profile with all its details.

1.1.2 Update Profile

Step	User Actions	System Action
1	The user selects to view his profile	The system returns user profile with all its details.
2	The user 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 user profile will be updated
Business Rule
The email field should be unwritable.

Use Case Number: 10	
Name	Sign up

Brief description	This use case allows the student to sign up

Actors	Student

Preconditions

No precondition required

Flows of Events:

1. Basic Flows

1.1.1 Sign up

Step	User Actions	System Action
1	The student request the sign up form	The system returns sign up form with all details to be filled.
2	The student fills the form and request the system to save it .	The system updates the record and returns the success message or a fail message on exception if it finds a duplicate student with same information as name , surname and email address.

Postconditions

The student will be created but not activated yet by the faculty advisor

Business Rule

No duplicate email addresses for student

Use Case Number: 11

Name	Register for a section

Brief description	This use case allows the student to register for a section

Actors	Student

Preconditions

The student must be logged in to the system

Flows of Events:

1. Basic Flows

1.1.1 Register for a section

Step	User Actions	System Action
1	The student request the list of sections	The system returns the list of sections persisted and available .
2	The student select his/her preferable section and request the system to enroll .	The system check the student meets the requirements for enrolling to that specific section and returns message or a fail message on exception the student profile doesn't matches with wanted requirements.

Postconditions

The section will be added to student schedule

Business Rule

No duplicate sections can be selected by the student .