

SWE 206
Lab05 Use Case Description
Section 53
Semester 232
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student's contributions

Abdullah Al Abbas – 33%

Mohammed Alyousif – 33%

Alridha Almajed – 33%

Use case ID:	1.1		
Use Case Name:	Register a Course		
Created by:	Section 53	Last Updated by:	
Date Created:	21/02/2024	Last Revision Date:	
Actors:	Student		
Description:	Adding a course to a student schedule		
Trigger:	Click Add courses button		
Preconditions:	<ul style="list-style-type: none"> • The student is authenticated • The registration status for the student is open • The student is in the banner system • ... 		
Postconditions:	<ul style="list-style-type: none"> • The section is added to the student schedule • Adding the student to the sections student list • Add the course to the student transcript • .. 		
Normal Flow:	<ol style="list-style-type: none"> 1. The student clicks the add a course button 2. The system prompt the user to enter the section CRN or to search for the course 3. The student enters the CRN values 4. The student clicks add CRNs 5. The system checks for the following <ol style="list-style-type: none"> a. The CRN is valid b. the section status is open c. The section time doesn't conflicts with the student schedule d. The section is of the appropriate gender for the student e. The student finished the pre requisite of the course f. The student finished or is taking the co requisites g. The student doesn't exceed the max hours for the semester if the section is registered h. The student didn't exceed the limit of out major courses. i. 6. The system finds all the checks to be valid 7. The section is registered for the student 		
Alternative Flows:	In Normal Flow step 3. 3A. The student chooses to search for a course		

	<ol style="list-style-type: none"> 1. The system prompt the user to enter the search fields 2. The student fill the fields and press okay 3. The system shows the filtered courses 4. The student chooses the section 5. The system fill the CRN fields with the section CRNs 6. Go back to normal flow step 4 <p>In Normal Flow step 6.</p> <ol style="list-style-type: none"> 6A. The system find one of the condition to be invalid <ol style="list-style-type: none"> 1. The system checks if the student have a valid petition 2. The system finds a valid petition for the conflict 3. Go back to Normal Flow step 7
Exceptions:	<p>In Normal Flow step 6.</p> <ol style="list-style-type: none"> 6A. The system find one of the condition to be invalid <ol style="list-style-type: none"> 4. The system checks if the student have a valid petition 5. The system finds no valid petition 6. The system display rejection message and go back to the registration page.
Assumptions:	
Notes and Issues:	CRN should be 6 digit numbers.

Use case ID:	1.2		
Use Case Name:	Drop a Course		
Created by:	Mohammed Alyousif	Last Updated by:	
Date Created:	2/23/2024	Last Revision Date:	
Actors:	Student		
Description:	Dropping a course from the student's schedule.		
Trigger:	clicks the "Drop a course" button		
Preconditions:	<ul style="list-style-type: none"> • The student is authenticated • The dropping time for the student is open • The student is in the banner system • --- 		
Postconditions:	<ul style="list-style-type: none"> • The section is dropped from the student schedule • Removing the student from the student list • Update the section capacity • --- 		
Normal Flow:	<ol style="list-style-type: none"> 1. The student logs into the course registration system. 2. The student clicks the "Drop a course" button. 3. The system prompts the student to enter the section CRN or search for the course by name. 4. The student enters the CRN or selects the course from the search results. 5. The student confirms their intent to drop the selected course. 6. The system verifies that: <ol style="list-style-type: none"> a) a. The entered CRN corresponds to a course the student is currently enrolled in. b) b. The course drop period is currently active. c) c. Dropping the course will not result in the student falling below the minimum credit hours required for their status d) now will result in a 'W' for withdrawal on the student's academic record. 7. If all conditions are met, the system processes the drop, updates the student's schedule, and adjusts the enrollment count for the course. 		

Alternative Flows:	<ol style="list-style-type: none"> 1. CRN Invalid or Course Not Found: <ol style="list-style-type: none"> a. The student enters an incorrect CRN or a course name that does not exist. b. The system displays an error message indicating the course was not found. c. The student is prompted to try again or search for the course by name. d. --- 2. Course is a Corequisite: <ol style="list-style-type: none"> a) The student attempts to drop a course that is a corequisite for another course they are enrolled in. b) The system warns the student and prevents the drop. 3. System Error or Maintenance: <ol style="list-style-type: none"> a. The student encounters a system error or the system is down for maintenance. b. The system provides an error message or maintenance notice. c. The student is advised to try again later or contact the registrar's office.
Exceptions:	The Student drop's the semester
Assumptions:	The current date is in the drop period with and without a W
Notes and Issues:	If the current date is outside of the initial drop period the system will check if the student can still drop the course without a 'W'.

Use case ID:	1.3		
Use Case Name:	View Schedule		
Created by:	Mohammed Alyousif	Last Updated by:	Alridha Almajed
Date Created:	2/23/2024	Last Revision Date:	2/23/2024
Actors:	Student, Faculty		
Description:	Viewing the current course schedule for students and the teaching schedule for faculty		
Trigger:	clicks the "view Schedule" button		

Preconditions:	<ul style="list-style-type: none"> The actor must be logged in. The actor has a schedule to view <ul style="list-style-type: none"> students have enrolled courses faculty have assigned teaching courses 		
Postconditions:	<ul style="list-style-type: none"> The actor views his schedule. 		
Normal Flow:	<ol style="list-style-type: none"> The actor logs in. The actor navigates to where schedules are displayed. The actor press the "View Schedule." button. The system displays the relevant schedule: <ul style="list-style-type: none"> For students: a list of currently enrolled courses for the term. For faculty: a list of courses they are teaching . The actor reviews the details of the schedule.. 		
Alternative Flows:	<ol style="list-style-type: none"> Schedule Not Available: <ul style="list-style-type: none"> The system is unable to retrieve the schedule due to maintenance or a system issue. The system displays an error message indicating that the schedule is temporarily unavailable. The actor is advised to try again later. No Courses Enrolled/Assigned: <ul style="list-style-type: none"> For students: no courses have been registered. For faculty: no teaching assignments have been made. The system displays a message indicating there are no courses on the schedule. 		
Exceptions:	The actor is not enrolled in the university		
Assumptions:	The actor has permission to view the schedule		
Notes and Issues:	The actor can not view a schedule where was not enrolled in the university		

Use case ID:	1.4		
Use Case Name:	View Section Student List		
Created by:	Mohammed Alyousif	Last Updated by:	Alridha Almajed

Date Created:	2/23/2024	Last Revision Date:	2/23/2024
Actors:	Faculty		
Description:	Viewing a list of students enrolled in a section.		
Trigger:	clicks the "View Section Student List" button		
Preconditions:	<ul style="list-style-type: none"> • The faculty member must be logged in. • The faculty member must have a section to teach 		
Postconditions:	<ul style="list-style-type: none"> • The faculty member views the list of students in the section. 		
Normal Flow:	<ol style="list-style-type: none"> 1. The faculty member logs in. 2. The faculty selects a course section. 3. The faculty clicks the "View Section Student List" button. 4. The system displays the list of students enrolled in that section, including relevant details such as student names, IDs. 		
Alternative Flows:	<ol style="list-style-type: none"> 1. No Students Enrolled: <ol style="list-style-type: none"> a. The system finds no students currently enrolled in the section. b. The system displays a message indicating the section has no enrolled students. 2. Access Denied: <ol style="list-style-type: none"> a. The system denies access and displays an error message. 		
Exceptions:	<ul style="list-style-type: none"> • The system encounters an unexpected error while attempting to display the student list. • The course section does not exist or has been cancelled. 		
Assumptions:	The faculty member view a student list for a section they are teaching.		
Notes and Issues:	The faculty can add the grades for the students		

Use case ID:	1.5		
Use Case Name:	Approve a Registration Petition		
Created by:	Alridha Almajed	Last Updated by:	Mohammed Alyousif
Date Created:	2/23/2024	Last Revision Date:	2/23/2024
Actors:	Registrar Admin		
Description:	Approving student petitions for registration.		
Trigger:	when the Registrar Admin presses the "Approve Registration" button		
Preconditions:	<ul style="list-style-type: none"> The Registrar Admin must be logged in. A student's registration petition must be submitted and pending review. The Registrar Admin must have accessed the student's petition details <ol style="list-style-type: none"> press "Approve Registration" button. 		
Postconditions:	<ul style="list-style-type: none"> The student's petition for registration is approved. The registration system add the student's enrollment in the desired course. The student receives an email of the approval. 		
Normal Flow:	<ol style="list-style-type: none"> The Registrar Admin logs in. The Admin navigates to the section of the system where pending registration petitions are listed. The Admin selects a petition to review and clicks to view its details. After reviewing the petition's details the Admin decides the petition is valid and should be approved. The Registrar Admin presses the "Approve Registration" button to approve the student's registration petition. The system processes the approval: <ol style="list-style-type: none"> It registers the student in the requested course. Updates the course enrollment count. Sends a confirmation notification to the student regarding the approval and next steps they need to know. The system optionally redirects the Admin to the next pending petition or confirms that the current action has been completed. --- 		
Alternative Flows:	<ol style="list-style-type: none"> Course Capacity Reached: <ul style="list-style-type: none"> When the actor approves the petition, the system checks and finds that the course has reached its maximum capacity. 		

	<ul style="list-style-type: none"> • The system alerts the Registrar Admin that approving the petition would exceed the course limit. • The Admin has to make a decision to either override the capacity limit or deny the petition with an explanation to the student. <p>2. Conflict With Student's Schedule:</p> <ul style="list-style-type: none"> • The system detects a scheduling conflict with the student's existing registrations when the Admin attempts to approve the petition. • The Registrar Admin is notified of the conflict and cannot proceed with approval until the conflict is resolved. • The Admin may communicate with the student to adjust their schedule or deny the petition with an explanation.
Exceptions:	The student ask for a subject where he can't take it due to pre- requisite
Assumptions:	The registrar admin will always Approve student petitions for registration.
Notes and Issues:	The petition must be submitted on the petition period

Use case ID:	1.6		
Use Case Name:	Register a Student into a section		
Created by:	Alridha Almajed	Last Updated by:	Abdullah Al Abbas
Date Created:	2/23/2024	Last Revision Date:	2/23/2024
Actors:	Registrar Admin		
Description:	Registering a student into a specific course section upon request or as part of administrative adjustments.		
Trigger:	when the Registrar Admin press the option to register a student into a section		
Preconditions:	<ul style="list-style-type: none"> • The Registrar Admin must be logged in. • The specific course section and student information must be available and valid. • The course section has available seats. 		
Postconditions:	<ul style="list-style-type: none"> • The student is successfully registered into the specified course section. • The course section's enrollment count is updated. • The student receives a notification about their new course registration. 		
Normal Flow:	<ol style="list-style-type: none"> 1. The Registrar Admin logs in. 2. The Admin selects the student's information. 3. The Admin searches and selects the course section. 4. The Admin verifies the course details and available seats before proceeding. 5. The Admin confirms the registration of the student into the selected section. 6. The system updates the enrollment list and seat count for the course section. 7. The system sends a notification to the student about their successful registration. 8. --- 		
Alternative Flows:	<ol style="list-style-type: none"> 1. Section Full: <ul style="list-style-type: none"> • The selected section has no available seats. • The Admin is notified and prompted to select a different section or override the seat limit. 2. Prerequisite Not Met: <ul style="list-style-type: none"> ○ The system detects that the student has not met the prerequisites for the course. 		

	<ul style="list-style-type: none"> ○ The Admin is notified and cancel the registration.
Exceptions:	Student is excepted to graduate when he takes the desired course
Assumptions:	Student information is valid
Notes and Issues:	If the course seems to cause a hard semester for the student the adviser should be notified to talk to the student before taking the course

Use case ID:	1.7		
Use Case Name:	Create new Section		
Created by:	Abdullah Al Abbas	Last Updated by:	Alridha Almajed
Date Created:	2/23/2024	Last Revision Date:	2/23/2024
Actors:	Registrar Admin		
Description:	Creating a new section for an existing course		
Trigger:	when the Registrar Admin press on “create a new section” button		
Preconditions:	<ul style="list-style-type: none"> • The Registrar Admin must be logged in • Information about the course for which a new section is needed, • There must be a demand or need for a new section of the course. 		

Postconditions:	<ul style="list-style-type: none"> • A new section for the course is successfully created. • The course section details, including timings, faculty assigned, and capacity, are updated in the system. • Faculty assigned to the new section are notified.
Normal Flow:	<ol style="list-style-type: none"> 1. The Registrar Admin logs in. 2. The Admin enters details for the new section, such as course ID, section number, meeting times, location, capacity, and faculty assignment. 3. The system validates the entered information for completeness and correctness. 4. The Admin submits the information to create the new section. 5. The system creates the new section and updates the course offerings and notifies the assigned faculty. 6. The Admin reviews the newly created section 7. ---
Alternative Flows:	<ol style="list-style-type: none"> 1. Faculty Unavailable: <ul style="list-style-type: none"> • No faculty are available to teach the new section at the proposed times. • The Admin must select different timing or change the faculty 2. Room Conflicts: <ul style="list-style-type: none"> • The selected location for the new section are unavailable due to scheduling conflicts. • The Admin must select a different location
Exceptions:	The system encounters an error during the section creation process.
Assumptions:	Course Information are valid
Notes and Issues:	The new course should be In in a time where most of the student find it suitable

Use case ID:	1.8		
Use Case Name:	Remove an existing Section		
Created by:	Abdullah Al Abbas	Last Updated by:	Alridha Almajed
Date Created:	2/23/2024	Last Revision Date:	2/23/2024
Actors:	Registrar Admin		
Description:	Removing an existing section of a course		
Trigger:	when the Registrar Admin press the “remove a course section” button		
Preconditions:	<ul style="list-style-type: none"> • The Registrar Admin must be logged in. • The section to be removed must has low enrolled students. 		
Postconditions:	<ul style="list-style-type: none"> • The selected course section is successfully removed. • Any enrolled students are notified of the cancellation. • The faculty assigned to the section are notified of the cancellation. 		
Normal Flow:	<ol style="list-style-type: none"> 1. The Registrar Admin logs in. 2. The Admin reviews the section details to confirm that there are low enrolled students 3. The Admin selects the option to remove the section. 4. The system prompts for confirmation to prevent accidental deletions. 5. Upon confirmation, the system removes the section from the course offerings. 6. Notifications are sent to any previously enrolled students and the assigned faculty, informing them of the cancellation and next steps. 7. The Admin reviews the system to ensure the section has been properly removed. 8. --- 		

Alternative Flows:	<p>Enrolled Students Present:</p> <ul style="list-style-type: none"> • The system detects enrolled students in the section. • The Admin is prompted to either manually remove students or provide an automated process for reassignment to other sections.
Exceptions:	System error occurs during the removal process
Assumptions:	Alternative Sections are Available
Notes and Issues:	A clear communication plan is essential for informing all students of the removal

Use case ID:	1.9		
Use Case Name:	Modify Section Details		
Created by:	Abdullah Al Abbas	Last Updated by:	Alridha Almajed
Date Created:	2/23/2024	Last Revision Date:	2/23/2024
Actors:	Registrar Admin		
Description:	Updating the details of an existing course section		

Trigger:	when the Registrar Admin press on “modify Section Details” button.
Preconditions:	<ul style="list-style-type: none"> • The Registrar Admin must be logged in. • The course section to be modified exists and is identified.
Postconditions:	<ul style="list-style-type: none"> • The selected course section's details are updated in the system. • Affected students and faculty are notified of the changes, if applicable.
Normal Flow:	<ol style="list-style-type: none"> 1. The Registrar Admin logs in. 2. The Admin edits the section details, such as changing the meeting times, location, increasing or decreasing capacity, or reassigning faculty. 3. The system validates the new details for conflicts. 4. Upon successful validation, the Admin confirms the modifications. 5. The system updates the section details and, if necessary, notifies affected students and faculty about the changes. 6. ---
Alternative Flows:	<ol style="list-style-type: none"> 1. Conflict Detected: <ul style="list-style-type: none"> • The system detects a scheduling conflict • The Admin is prompted to adjust the modifications to change the faculty
Exceptions:	technical issue prevents the modification of section details
Assumptions:	The registration system have a notification system to automatically inform students and faculty of any changes
Notes and Issues:	Changes to section details should be documented