Group 5 Bettervisor

Milestone 2 Use Cases

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Section 1: Use Cases - Degree Management Subsystem

- 1.1 DM1: Register for courses
- 1.2 DM2: Deregister from courses
- 1.3 DM3: Plan future semesters
- 1.4 DM4: Update personal information
- 1.5 DM5: Add course review
- 1.6 DM6: Pay Tuition & Fees
- 1.7 DM7: Request a refund
- 1.8 DM8: Declare minor

Use Case Title: Register for courses

Purpose: Allow student to save their place in a desired course

Primary Actor: Student Stakeholders & Interests:

1) Student

a) Wants to quickly register for courses

b) Wants to pay for all costs associated with registration

2) Professor

a) Wants updated information of all students registered in their course

3) University

- a) Wants to confirm the student's enrollment status
- b) Wants to accurately bill the student for all costs associated with registration
- c) Wants to have access to funds within a timely manner
- 4) Program counsellor
 - a) Wants to quickly enroll a student in a section of a course on their behalf

Preconditions:

1) Student is authenticated

Post Conditions:

- 1) Student's schedule includes applicable course section's time commitments
- 2) Student's information appears on course's class list
- 3) Student's progress information is updated
- 4) Number of empty seats for the given section is updated
- 5) Correct cost of course added to semester invoice(if applicable)

Basic Flow:

- 1) Student identifies the course they would like to register for
- Student enters request to enroll in one section of the course
- 3) System verifies that all eligibility criteria is met and approves the request
- 4) System gets student's information and adds it to course's class list
- 5) System updates student's semester schedule with the course section's time commitments
- 6) System updates student's progress information
- 7) System adds course fee to total amount owed by student
- 8) Student pays total amount owed, refer to <u>DM6</u> for detailed flow

- *a) If student's degree level is PhD, student is automatically enrolled in a placeholder course
 - 1) System recognizes placeholder course and bypasses invoice update
 - 2) System adds placeholder course to the bottom of the semester schedule(no time commitment)
- 3a) If any of the following cases are true, system denies student request to enroll in a given section and displays an appropriate message:
 - i) One or more prerequisites not met
 - ii) Credit requirement not met
 - iii) Major or minor faculty doesn't match
 - iv) Currently registered for maximum number of credits
 - v) Insufficient total credits for current registration window or past registration deadline
 - vi) Conflicting lecture and/or lab time with a registered course
 - vii) Exam conflict with a registered course
- 3b) Upon system rejecting student request for reasons i,ii,iii,iv,v in 3a, student can seek an override from the counsellor
 - Student reaches out to counsellor specifying course and section ID they'd like to enroll in
 - 2) counsellor can accept this request and place student in the desired section
- 3c) No cases in 3a are met and section contains 0 empty seats at the time of the request:
 - 1) System adds student information to waitlist
 - 2) System displays appropriate message indicating this action was taken
 - System provides counsellor with updated waitlist where they place student in the desired section

Use Case Title: Deregister from courses

Purpose: Allow a student to drop a registered course

Primary Actor: Student Stakeholders/Interests:

1) Student

a) Wants to unenroll from a section of a course

b) Wants to get a refund for deregistering from a course\

2) Professor

a) Wants updated information about the students in the class

3) University

a) Wants to confirm student's enrollment status

b) Wants to verify the student's eligibility for a refund and initiate the process

4) Program counsellor

a) Wants to quickly unenroll a student from a section of a course on their behalf

Preconditions:

- 1) The student is authenticated
- 2) The student has registered for a course

Postconditions:

- 1) Student's schedule no longer includes course section's time commitments
- 2) Student's information is removed from the course's class list
- 3) Student's progress information is updated
- 4) Number of seats in the section of the course is updated
- 5) If applicable, semester invoice is credited by the appropriate amount

Basic Flow:

- 1) Student identifies the course they would like to deregister from
- 2) Student sends a request to deregister from their enrolled section
- 3) System verifies that the student is eligible to deregister
- 4) System removes student's information from the class list
- 5) System updates student's course schedule by removing the section's time commitment
- 6) System updates student's progress information
- 7) System credits semester invoice

Alternative Flow:

- 3a) If the student has passed the deadline of deregistering from a course, the system denies the deregister request from the student and displays and appropriate message
- 3b) Upon a denied request for deregistering, a student can seek out an override request from the program counsellor
 - 1) Student reaches out to their respective program counsellor with a filled out academic consideration form
 - 2) Program counsellor reviews the form and can accept to override the student to deregister from the course.
- 7a) Based on the time of deregistering:
 - 1) If 14 days have passed since the start of the course, student's semester invoice is not credited
 - 2) If 7 days have passed since the start of the course, student's semester invoice is credited 50% of the course fee
 - 3) If less than 7 days have passed since the start of the course, student's semester invoice is credited 100% of the course fee

Note: Refer to <u>DM7</u> for detailed flow on refund process when a credit balance exists

Use Case Title: Plan future semesters

Purpose: Aid in degree planning and management

Primary Actor: Student Stakeholders/Interests:

1) Student

a) Wants to create future semester schedules in order to plan out the courses they will take to complete their degree

2) University

a) Wants to ensure that the student is able to plan their degree for successful graduation

Preconditions:

1) The student is authenticated

Postconditions:

- 1) An empty semester schedule of the specified term is created
- 2) The semester schedule is saved with planned courses

Basic Flow:

- Student requests to create an empty semester schedule according to the remaining semesters in their degree
- 2) System generates empty planned semester schedule alongside current semester schedule
- 3) Student selects a course to add to their planned semester schedule Repeat step 3 until satisfied

- 1a). Student is on their last semester before their expected graduation date
 - 1) System informs the student that:
 - a) It cannot create new semester schedules
 - b) The student should apply for a continuation of study if they wish to plan future semesters
- 2a). System fails to generate a semester schedule
 - 1) System informs student of an unexpected error while trying to create a new semester schedule, and that the student should attempt this action at a later time

Use Case Title: Update personal information

Purpose: For students to edit their personal information with up to date information

Primary Actor: Student Stakeholders/Interests:

1) Student

a) Wants to update personal information when something relevant changes

2) University

a) Wants to verify that the information provided is up to date

Preconditions:

1) The student is authenticated

Postconditions:

1) The required student information has been successfully changed based on the inputs provided.

Basic Flow:

- 1) Student identifies what part of their personal information needs to be modified
- 2) Student selects the edit option
- 3) Student replaces old information with new information
- 4) Student confirms their changes
- 5) System verifies that all required fields have valid values
- 6) System replaces old information with provided input

- 3a) Student changes none of the required fields
 - 1) System displays a message indicating that no changes have been applied
- 5a) One or more required fields are empty
 - 1) System displays message indicating which one of the fields require input
- 5b) One or more of the fields replaced with new information have improper format
 - System displays message indicating which fields have improper format alongside the desired format

Use Case Title: Add course review

Purpose: For students to be able to provide feedback for a course that they've completed

Primary Actor: Student Stakeholders List:

1) Student

a) Students that have completed the course want to provide feedback to students planning to take the course

b) Students planning to take the course want to use feedback to help make their final decision

Pre Conditions:

1) The student is authenticated

Post Conditions:

1) Review appears alongside course when student is planning/registering

Basic Flow:

- 1) Student selects a course to provide feedback for
- 2) System verifies that the student has received a credit for the course they're attempting to review
- 3) System prompts student to enter a rating from 1-5 indicating satisfaction of overall course experience
- System prompts student to enter an optional comment for any additional details they'd like to disclose
- 5) System verifies the content of the comment if applicable
- 6) System places the review under the course selected in step 1

Alternative Flow:

2a) System will deny the request to submit a rating if the student has not received the credit for the course they're attempting to review

1) System displays an appropriate message indicating missing credit

5a) System detects inappropriate language and/or profanity being used in the comment and rejects the review

- 1) System prompts student to change comment and not use inappropriate language
- 5b) System detects that comment field is not within 250-1000 characters and rejects the review
 - 1) System prompts student to change comment to meet character limit

Use Case Title: Pay Tuition & Fees

Primary Actor: Student

Purpose: To pay cost of enrollment to the university

Stakeholder/Interests:

1) Student

a) Wants to maintain good financial standing with the university

b) Wants to remain enrolled in their course sections

2) University

a) Wants to receive payment from student

3) Financial Institution

a) Wants to facilitate the payment process

Preconditions:

- 1) The student currently has a debit balance for the semester invoice
- 2) At least one of the following is true:
 - a) The student owes ancillary fees
 - b) The student owes residence fees
 - c) The student is enrolled in a course that incurs tuition

Postconditions:

1) The student's balance with the university is updated based on the amount paid

Basic Flow:

- 1) System displays the student's total balance alongside a breakdown of costs
- 2) System provides university's account information for making bill payments through a recognized financial institution
- 3) Student transfers funds to the university account
- 4) Student pays their full invoice resulting in a balance of zero

- 4a) Overpayment
 - 1) The student has a credit balance with the university
 - 2) System automatically applies credit balance to the next tuition/fee payment
 - 3) It can also be withdrawn, refer to <u>DM7</u> for details
- 4b) Underpayment:
 - 1) The student's balance is decreased by the amount paid but still has a debit balance
- 4c) No payment:
 - 1) If the student does not pay by the semester deadline, the system advises student to contact their counsellor for further instructions
 - 2) If no action is taken by the counsellor to amend the issue, the system will unenroll the student from all their registered course sections and remove tuition/fees from their semester invoice

Use Case Title: Request a refund

Primary Actor: Student

Purpose: To withdraw credit from the university

Stakeholder/Interests:

1) Student

a) Wants to receive any excess funds that exist within their account

2) University

a) Wants to approve withdrawal request from their account

3) Financial Institution

a) Wants to facilitate the refund process

Preconditions:

1) The student has a credit balance with the university

Basic Flow:

- 1) System displays credit balance to the student
- 2) Student selects option to refund credit
- 3) The student enters the amount of credit they would like to receive
- 4) University sends this amount through a recognized Canadian financial institution to the account the payment came from

- 2a) Student is not domestic and has not completed two consecutive semesters at the university
 - 1) System denies request and displays a message indicating ineligibility
- 3a) Requesting to withdraw an amount exceeding credit balance
 - 1) System denies request and displays message indicating the credit balance
- 4b) Student is not domestic and has completed at least two consecutive semesters at the university
 - 1) System deposits the amount into a recognized international financial institution of the student's choice but takes \$50 for foreign transfer fee

Use Case Title: Declare minor

Purpose: Allow students to officially declare a minor

Primary Actor: Student Stakeholders & Interests:

1) Student

a) Wants to take courses in an area of study outside of their major

2) Program counsellor

a) Wants to know about and record student's minor declaration

Preconditions:

1) The student is authenticated

2) The student is currently at the undergraduate level

Postconditions:

1) The student's minor appears under their degree

2) The student can register for a course in their minor's faculty without the need for a counsellor override

Main Flow:

- 1) Student submits a complete minor declaration request
- 2) System sends request to appropriate program counsellor for review
- 3) Program counsellor approves request
- 4) System adds the minor name to student's degree
- 5) Student registers for courses in their minor's faculty according to DM1

- 1a) Student submits request to change a previously declared minor
- 1b) Student submits a request to declare an additional minor
- 2a) Councillor rejects minor declaration request due to:
 - i) Insufficient credits remaining prior to prescribed graduation date
 - ii) Student's GPA is below 60%
- 3a) If 1a) is true, system replaces old minor with new minor
- 3b) If 1b) is true, system adds the additional minor name to student's degree