**Design & Implementation of a Dynamic Web-Based Registration System for U.A. University**

CS 5910 BL1

Professor Naresh Gupta

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**1. Meeting Log**

| **Location** | **Date/Time** | **Members Present** | **Discussed Topics** | **Decisions Made** |
| --- | --- | --- | --- | --- |
| Discord (Virtual) | 09/09/2023 Start: 8:40PM  Finish: 9:30pm | Hunter Oriol  **Present**  Ganesh Ramcharan  **Present**  Jeriel Salvador  **Present** | First Meeting. Discussion of assignment due Tuesday. | Email professor for more clarification on assignment. Create Problem Statement on Monday if no answer is received. |
| Discord (Virtual) | 9/11/2023 Start:5:50PM Finish: 7pm | Hunter Oriol  **Present**  Ganesh Ramcharan  **Present**  Jeriel Salvador  **Present** | Problem Statement Assignment | Work was performed on the cover page and problem statement. |
| Discord (Virtual) | 09/13/2023  Start: 6:00 PM Finish: 9pm | Hunter Oriol  **Present**  Ganesh Ramcharan  **Present**  Jeriel Salvador  **Present** | SRS Assignment | Revision of problem statement. Addition of Table of Contents, Meeting Log, and SRS sections |
| Discord(Virtual) | 09/16/2023 Start: 7:00PM Finish : 8:30PM | Hunter Oriol  **Present**  Ganesh Ramcharan  **Present**  Jeriel Salvador  **Present** | Use Case Tables | Split Use Case Table work into four sections and have each member do one section and work together on the Statistic Office Use Cases on a later date |
| Discord(Virtual) | 09/18/2023 Start: 7:30PM Finish: 9PM | Hunter Oriol  **Present**  Ganesh Ramcharan  **Present**  Jeriel Salvador  **Present** | Use Case Tables | Addition/Revision of Use Case Tables |
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**2. Problem Statement**

Our team has been tasked with the design and implementation of a dynamic web-based registration system for U.A. University, and we have been presented with an extensive set of precise instructions to guide us through the development process. This project entails the careful integration of user privileges, ensuring that the administrators, faculty, students, and statistics office users, can interact with the website in accordance with their roles and responsibilities. These instructions serve as a comprehensive roadmap, delineating the specific actions and functionalities that each user category should be able to access and utilize on the website. However, within this framework, there are instances where certain actions and functionalities have been designated as ‘Required’ or 'Forbidden' for the designated user roles. To successfully navigate this endeavor, we must interpret and implement these instructions accurately, taking into account the nuanced restrictions and permissions that apply in different scenarios.

**3. System Requirements Specification (SRS)**

**3.1 Introduction**

**3.1.1 Purpose**

The purpose of this System Requirements Specification (SRS) is to outline the functional and non-functional requirements for the development of an online learning website. This document serves as a reference for stakeholders, developers, and testers involved in the project.

**3.1.2 Scope**

This SRS document focuses on the System requirements for four user types: Students, Administrators (Admin), Faculty members and Statistics Office. It defines the necessary features and constraints for each user type.

**3.2 Specific Requirements**

**3.2.1 Student User Requirements**

**3.2.1a Explicitly Required Specifications**

1. Graduate students (part-time or full-time) and Undergrad students (part-time or full-time) are supported.
2. Full-time students are allowed to register for credits.
3. Part-time students can register for up to 6 credits.
4. Users are required to sign in using their email and password.
5. The system will lock out users after a certain number of wrong password attempts.
6. View the master schedule for Fall 2023 and Spring 2024.
7. The system allows students to search the master schedule by:
   * 1. Department name
     2. Course name
     3. Professor name
     4. Time slot
     5. Room
     6. Building/Room number
     7. available seats

8. Students can view their Fall 2023 and Spring 2024 Personal Schedule.

9. Students can view academic holds (academic, disciplinary, finance, health)

10. View their Grades.

11. View their Unofficial transcript

12. View their Degree audit

13. View their Advisors

14. View their Personal information

15. View a list of departments

16. View a list of Majors in a department

17. View a list of Minors in a department

18. View Courses in a department

19. View Course prerequisites

20. View assigned advisors.

21. Change Address, Phone number, and password.

22. Declare a major or minor

23. Change a declared major or minor

24. Register for a course section

25. Drop a course section

**3.2.1b Forbidden Systems Requirements Specification**

1. Students cannot register if they have a hold.
2. Registration is prohibited if prerequisite requirements are not met.
3. Full-time students are not allowed to register for more than 12 credits.
4. Part-time students are not permitted to register for more than 6 credits.
5. Registration outside the assigned time window is not allowed.
6. Users cannot register for a course with no available seating.
7. Registering for two-course sections at the same time window is not allowed.
8. Users cannot register for a course if they have already received a passing grade.
9. Dropping a course after a given time window is prohibited.
10. Changing User ID (email) is not permitted.
11. Changing grades is prohibited.
12. Changing attendance records is not allowed.

**3.2.2 Admin User Requirements**

**3.2.2a Explicitly Required Specifications**

1. Admins are full-time employees.
2. Admins can log in to the system
3. Are assigned a security/priority level
4. Create users including:
   * 1. UID
     2. Name
     3. Email
     4. Password
     5. Address
     6. User type
     7. Student information (graduate or undergrad)
     8. Faculty information (departments, full-time, part-time)
5. Create and update the Master Schedule for Fall 2023
6. Create and update the Master Schedule for Spring 2024
7. Search the Master Schedule by:
   * 1. Department name
     2. Course name
     3. Professor name
     4. CRN
     5. Timeslot
     6. Room number
     7. Available seats
8. Admins can create:
   * 1. Courses
     2. Departments
     3. Majors
     4. Minors
     5. Course prerequisites
     6. Major requirements
     7. Minor requirements
     8. Faculty members in various departments
     9. CRNs
     10. Course section numbers

9. Assign faculty to course sections

10. Assign time-slots to course sections

11. Assign rooms to course sections

12. Assign the number of available seats to course sections

13. Delete course sections

14. Update course section by:

* + 1. Faculty
    2. Room
    3. Available seats

15. Add students to course sections

16. Remove students from course sections

17. Update students' grades in course sections.

18. Assign a major or minor to student

19. Drop a major or minor for student

20. Add course section to a student

21. Add or remove holds for student

22. View Student degree audits

23. View Student Unofficial transcripts

24. View Student Contact information

25. View Faculty department

26. View Faculty schedules

27. View Class rosters for course sections.

**3.2.2b Forbidden Systems Requirements Specification**

1. Full-time faculty members cannot be assigned to more than 2 courses.
2. Part-time faculty members can only be assigned to 1 course.
3. A faculty member cannot be assigned to 2 courses in the same time-slot.
4. More than one course cannot be assigned to a room in the same time-slot.
5. Faculty members cannot be assigned to a course section outside their department.

**3.2.3 Faculty User Requirements**

**3.2.3a Explicitly Required Specifications**

1. Full-time faculty can teach 2 courses
2. Part-time faculty can teach 1 course.
3. Faculty can belong to more than 1 department.
4. Faculty members can view the master schedule for Fall 2023 and Spring 2024.
5. Search the master schedule by:
   * 1. Department name
     2. Course name
     3. Timeslot
     4. Room
     5. Building
     6. Available seats
6. View their personal schedule for Fall 2023 and Spring 2024
7. In personal schedule, access to view class:
   * 1. Rosters
     2. Student IDs
     3. Student emails
     4. Transcripts
     5. Advisors
8. Faculty can record attendance only on the day of class.
9. Assign semester grades within a specified time window.

**3.2.3b Forbidden Systems Requirements Specification**

1. Faculty cannot teach more than **2 classes** if they are **full-time** or **1 class** if they are **part-time**.
2. A faculty member cannot be in more than 2 departments.
3. Teaching outside their department is not allowed.
4. Faculty members cannot view class attendance outside their department.
5. Faculty members cannot assign grades outside the time window.
6. Cannot have less than 10 advisees.
7. Changing email addresses and user IDs is not permitted.
8. Faculty cannot access other users' information except for their advisees.
9. Undergraduates cannot take graduate courses.
10. Graduates cannot take undergraduate courses.

**3.2.4 Statistics Office Requirements**

**3.2.4a Explicitly Required Specifications**

1. View overall school statistics including:
   * 1. Percentage of Graduate Students.
     2. Percentage of Full-Time Students.
     3. Percentage of Part-Time Students.
2. View departmental statistics including:
   * 1. Number of Masters (M.S.) Students per Discipline (Department).
     2. Number of Ph.D. Students per Discipline (Department).
3. View graduation rate based on number of years specified by the Statistics Office.
4. View major and minor statistics including:
   * 1. Number of Majors in different academic majors.
     2. Number of Minors in different academic minors.

**3.2.4b Forbidden Systems Requirements Specification**

1. The Statistics Office is given the same restrictions as a visitor outside of their Required SRS.

**4. Use Case Tables**

**4.1 UNIVERSAL**

| **USE CASE** | **Successful Login** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to log into their account using the Sign-In page. |
| Flow of events | 1. User clicks on “Sign-In” button on the website.  2. User types in username (email) and password into their respective input boxes.  3. User clicks the “login” button.  4. User’s Email and Password are valid. |
| Exit | User is granted access to their account and is signed in. |

| **USE CASE** | **Unsuccessful Login** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to log into their account using the Sign-In page but has failed three(3) times. |
| Flow of events | 1. User attempts to login with Invalid credentials.  2. Login count exceeds 3 allowed attempts.  3. User account is locked out and User uses the Reset Button.  4. User receives a reset code from the admin in their email inbox.  5. User inputs the reset code into the Reset Page’s input box and clicks “Reset Password.”  6. Temporary password is sent to User’s email inbox. |
| Exit | User can now attempt to login to their account using given temporary password. |

| **USE CASE** | **View Master Schedule** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to view the Master Schedule on the University website. |
| Flow of events | 1. User is on the front page of the University website.  2. User clicks on the “Master Schedule” button.  3. User chooses “Fall 2023” or “Spring 2024” schedule from the list. |
| Exit | User can now view the Master Schedule. |

| **USE CASE** | **Search Master Schedule** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to search the Master schedule using a filter  (Department name, Course Name, Professor Name, Time Slot, Room/Building or Available Seats) |
| Flow of events | 1. User views the Master Schedule.  2. User chooses “Fall 2023” or “Spring 2024” schedule from the list.  3. User clicks on the “Search” Button.  4. User selects which filter is to be used.  5. If applicable, User inputs a specific value for the filter for a more specific search. |
| Exit | User can search the Master Schedule using the filters they have chosen. |

| **USE CASE** | **View List of Departments** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to view the list of departments on the University website. |
| Flow of events | 1. User is on the front page of the University website.  2. User clicks on the “Departments” button  3. User is given a list of all departments in the university. |
| Exit | User can now choose which department to view from the list. |

| **USE CASE** | **View Majors in a Department** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to view the majors in a department |
| Flow of events | 1. User is on the front page of the University website.  2. User clicks on the “Departments” button  3. User is given a list of all departments in the university.  4. User chooses a specific department from the list  5. User clicks on “Available Majors” button  6. User is given a list of all available majors in the department. |
| Exit | User can now view the available majors in the department. |

| **USE CASE** | **View Minors in a Department** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to view the minors in a department |
| Flow of events | 1. User is on the front page of the University website.  2. User clicks on the “Departments” button  3. User is given a list of all departments in the university.  4. User chooses a specific department from the list  5. User clicks on “Available Minors” button  6. User is given a list of all available minors in the department. |
| Exit | User can now view the available minors in the department. |

| **USE CASE** | **View Courses in a Department** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to view the minors in a department. |
| Flow of events | 1. User is on the front page of the University website.  2. User clicks on the “Departments” button.  3. User is given a list of all departments in the university.  4. User chooses a specific department from the list.  5. User clicks on “Available Courses” button.  6. User is given a list of all available courses in the department. |
| Exit | User can now view the available courses in the department. |

| **USE CASE** | **View Course Prerequisites** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User attempts to view the course prerequisites of a specific course. |
| Flow of events | 1. User is on the front page of the University website.  2. User clicks on the “Departments” button.  3. User is given a list of all departments in the university.  4. User chooses a specific department from the list.  5. User clicks on “Available Courses” button.  6. User chooses a specific course to view.  7. User is given a list of the course prerequisites for the chosen course. |
| Exit | User can now view the available courses in the department. |

| **USE CASE** | **View Personal Information** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User has logged in and attempted to view their personal information. |
| Flow of events | 1. User logs in to their account.  2. User clicks on the “View Academic Information” Button  3. User clicks on the “View Personal Information” Button. |
| Exit | User can view their personal information. |

| **USE CASE** | **Update Address** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User has logged in and attempts to change their address. |
| Flow of events | 1. User logs in to their account.  2. User clicks on the “View Academic Information” Button.  3. User clicks on the “View Personal Information” Button.  4. User clicks on the “Change Personal Information Button.”  5. User is given list of what is valid to be changed.  6. User selects “Address” from the list  7. User inputs new address into their respective fields.  8. User is prompted to enter their password for security.  9. Valid password will allow address update to be authorized. |
| Exit | User has now changed the Address listed on their account. |

| **USE CASE** | **Update Phone Number** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User has logged in and attempts to change their phone number. |
| Flow of events | 1. User logs in to their account.  2. User clicks on the “View Academic Information” Button.  3. User clicks on the “View Personal Information” Button.  4. User clicks on the “Change Personal Information Button.”  5. User is given list of what is valid to be changed.  6. User selects “Phone number” from the list .  7. User inputs new phone number into respective field.  8. User is prompted to enter their password for security.  9. Valid password will allow phone number update to be authorized. |
| Exit | User has now changed the phone number listed on their account. |

| **USE CASE** | **Update Password** |
| --- | --- |
| List of actors | Student, Faculty, Admin or Statistics Office |
| Initial Conditions | User has logged in and attempts to change their password. |
| Flow of events | 1. User logs in to their account.  2. User clicks on the “View Academic Information” Button  3. User clicks on the “View Personal Information” Button.  4. User clicks on the “Change Personal Information Button.”  5. User is given list of what is valid to be changed.  6. User selects “Password” from the list .  7. User inputs new password into respective field.  8. User is prompted to enter their current password for security.  9. Valid password will allow password update to be authorized. |
| Exit | User has now changed the password on their account. |

**4.2 STUDENT**

| **USE CASE** | **View Academic Hold** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to view a hold placed on their account. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Holds on Account” button. |
| Exit | Student can view their academic hold on their account. |

| **USE CASE** | **View Personal Schedule** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student attempts to view their personal schedule. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Personal Schedule” Button.  4. User chooses “Fall 2023” or “Spring 2024” schedule from the list. |
| Exit | Student can view their Personal Schedule for the Fall 2023 or Spring 2024 semesters. |

| **USE CASE** | **View Grades** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to view their grades. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on “My Grades” Button. |
| Exit | The Students can view their grades for the Fall 2023 semester. |

| **USE CASE** | **View Unofficial Transcript** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to view their unofficial transcript. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Unofficial Transcript” Button. |
| Exit | Student can view their Unofficial Transcript. |

| **USE CASE** | **View Degree Audit** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to view their degree audit. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button  3. Student clicks on the “View Degree Audit” Button. |
| Exit | Student can view their Degree Audit. |

| **USE CASE** | **View Assigned Advisors** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to view their assigned advisors. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button  3. Student clicks on the “View Advisors” Button. |
| Exit | Student can view their assigned advisors. |

| **USE CASE** | **View Current Majors/Minors** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to view their majors/minors. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Majors and Minors” Button.  4. Student is given list of declared majors and minors on their account, if applicable. |
| Exit | Student can view their current majors and minors. |

| **USE CASE** | **Declare Major** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to declare a major. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Majors and Minors” Button.  4. Student is given list of declared majors and minors on their account, if applicable.  5. Student clicks on the “Declare a Major” button.  6. Student is given a list of all majors available to them, chooses a major from the list and clicks the “Declare Major” button. |
| Exit | Student has added a major to their account. |

| **USE CASE** | **Change Major** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to change one of their declared majors. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Majors and Minors” Button.  4. Student is given list of declared majors and minors on their account, if applicable.  5. Student clicks on the “Change Major” button next to their chosen major on the list.  6. Student is given a list of all majors available to them, chooses a major from the list and clicks the “Change Major” button. |
| Exit | Student has changed a major on their account. |

| **USE CASE** | **Declare Minor** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to declare a minor. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Majors and Minors” Button.  4. Student is given list of declared majors and minors on their account, if applicable.  5. Student clicks on the “Declare a Minor” button.  6. Student is given a list of all minors available to them, chooses a minor from the list and clicks the “Declare Minor” button. |
| Exit | Student has added a minor to their account. |

| **USE CASE** | **Change Minor** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to change one of their declared minors. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Majors and Minors” Button.  4. Student is given list of declared majors and minors on their account, if applicable.  5. Student clicks on the “Change Minor” button next to their chosen minor on the list.  6. Student is given a list of all minors available to them.  7. Student chooses a minor from the list and clicks the “Change Minor” button. |
| Exit | Student has changed a minor on their account. |

| **USE CASE** | **Register Course - Successful** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to Register for a course. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Personal Schedule” Button.  4. Student is given list of current course sections on their account  5. Student clicks on the “Add a course” button.  6. Student is given a list of departments and chooses a department from the list.  7. Student is given a list of courses available in the department and chooses a course.  8. Student is given a list of course sections available, selects a course section and clicks the “Add Course” button  9. Holds, Available Seats, Prerequisites, Total Credits,Schedule Conflict and Time Window requirements are met. |
| Exit | Student has added a course to their personal schedule. |

| **USE CASE** | **Register Course - Unsuccessful** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to Register for a course. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Personal Schedule” Button.  4. Student is given list of current course sections on their account  5. Student clicks on the “Add a course” button.  6. Student is given a list of departments and chooses a department from the list.  7. Student is given a list of courses available in the department and chooses a course.  8. Student is given a list of course sections available, selects a course section and clicks the “Add Course” button  9. One of the following requirements is not met: Holds, Available Seats, Prerequisites, Total Credits, Schedule Conflict or Time Window. |
| Exit | Student is forbidden from adding the course section to their schedule. |

| **USE CASE** | **Drop Course - Successful** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to drop a course from their schedule. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Personal Schedule” Button.  4. Student is given list of current course sections on their account  5. Student selects a current course section on their schedule and clicks on the “Drop Course” button.  6. Time Window requirements are met and course is allowed to be dropped. |
| Exit | Student has dropped a course to their personal schedule. |

| **USE CASE** | **Drop Course - Unuccessful** |
| --- | --- |
| List of actors | Student |
| Initial Conditions | Student has logged in and attempted to drop a course from their schedule. |
| Flow of events | 1. Student logs in to their account.  2. Student clicks on the “View Academic Information” Button.  3. Student clicks on the “View Personal Schedule” Button.  4. Student is given list of current course sections on their account  5. Student selects a current course section on their schedule and clicks on the “Drop Course” button.  6. Outside of “Drop Course” Time Window, action not allowed. |
| Exit | Student has been prevented from dropping the course from their schedule. |

**4.3 ADMIN**

| **USE CASE** | **Admin Log-In** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin Logs in |
| Flow of events | 1. Admin logs into their account  2. The system grants access to the system based on the Admin's priority level.  3. Admin uses the system according to their priority level |
| Exit | Admin can log into the system at their priority level. |

| **USE CASE** | **Create a user** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin attempts to create a user |
| Flow of events | 1. Admin logs in.  2. Admin selects “create a user”.  3. Admin inputs the user's name  4. Admin inputs the user’s email  5. Admin inputs the user’s password.  6. Admin inputs the users’ address.  7. The user is created. |
| Exit | The user is created. |

| **USE CASE** | **Update Student Information** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin attempts to update student information |
| Flow of events | 1. Admin logs in.  2. Admin selects to update student academic information.  3. A list of students is presented.  4. Admin selects target student.  3. Admin updates student to graduate. |
| Exit | The admin has updated the student information to graduate. |

| **USE CASE** | **Update Student Information** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update student information |
| Flow of events | 1. Admin logs in.  2. Admin selects to update student information.  3. A list of students is presented.  4. Admin selects target student.  5. Admin updates student to undergraduate. |
| Exit | The admin has updated the student information to undergraduate. |

| **USE CASE** | **Update Faculty Department Information** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update faculty department information. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update faculty information.  3. A list of faculty members is presented.  4. Admin selects target member.  5. Admin updates faculty members' departments. |
| Exit | Admin has updated the faulty members’ departments |

| **USE CASE** | **Update Faculty Employment Status** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update faculty to full-time. |
| Flow of events | 1. Admin logs in  2. Admin selects to update faculty information.  3. A list of faculty members is presented.  4. Admin selects target member.  5. Admin updates faculty employment status to full-time. |
| Exit | Admin has updated the faculty members' information |

| **USE CASE** | **Update Faculty Employment Status** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update faculty to part-time. |
| Flow of events | 1. Admin logs in  2. Admin selects to update faculty information.  3. A list of faculty members is presented.  4. Admin selects target member  5. Admin updates faculty employment status to part-time. |
| Exit | Admin has updated the faculty members' information |

| **USE CASE** | **Create Master Schedule for Fall 2023** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create a master schedule for Fall 2023 |
| Flow of events | 1. Admin logs in  2. Admin selects to create a master schedule for fall 2023. |
| Exit | The master schedule for fall 2023 is created. |

| **USE CASE** | **Update Master Schedule for Fall 2023** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the master schedule for Fall 2023 |
| Flow of events | 1. Admin logs in  2. Admin selects to update master schedule for fall 2023. |
| Exit | The master schedule for fall 2023 is updated. |

| **USE CASE** | **Create Master Schedule for Spring 2024** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create a master schedule for Spring 2024. |
| Flow of events | 1. Admin logs in  2. Admin selects to create a master schedule for Spring 2024. |
| Exit | The master schedule for Spring 2024 is created. |

| **USE CASE** | **Update Master Schedule for Spring 2024** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the master schedule for Spring 2024. |
| Flow of events | 1. Admin logs in  2. Admin selects to update the master schedule for Spring 2024. |
| Exit | The master schedule for Spring 2024 is updated. |

| **USE CASE** | **Admin Creates Department** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create Department |
| Flow of events | 1. Admin logs in  2. Admin selects to create a department.  3. Admin provides department name and description. |
| Exit | The department is created. |

| **USE CASE** | **Create a Course** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create a course. |
| Flow of events | 1. Admin logs in  2. Admin selects to create a course.  3. Admin names course. |
| Exit | The new course is created and added to the system's course catalog. It is available to have information assigned to it. |

| **USE CASE** | **Assign Course Section Number** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to assign the courses’ section number. |
| Flow of events | 1. Admin logs in.  2. Admin selects to assign course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin updates course section number. |
| Exit | The course section number is assigned. |

| **USE CASE** | **Assign Courses Professor** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to assign the courses’ professor. |
| Flow of events | 1. Admin logs in.  2. Admin selects to assign course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin selects to view professors in course department.  6. Admin selects professor for target course. |
| Exit | The professor for the course is now assigned. |

| **USE CASE** | **Assign Courses Time Slot** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to assign the courses’ time slot. |
| Flow of events | 1. Admin logs in.  2. Admin selects to assign course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin assigns courses' time slots. |
| Exit | The time slot for the course is now assigned. |

| **USE CASE** | **Assign Course room** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to assign the courses’ room. |
| Flow of events | 1. Admin logs in.  2. Admin selects to assign course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin assigns courses' room. |
| Exit | The room for the course is assigned. |

| **USE CASE** | **Assign Courses Available Seats** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to assign the courses’ available seats. |
| Flow of events | 1. Admin logs in.  2. Admin selects to assign course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin assigns courses' available seats. |
| Exit | The time slot for the course is assigned. |

| **USE CASE** | **Update Course Section Number** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to input the courses’ section number. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin updates course section number. |
| Exit | The course now has a section number |

| **USE CASE** | **Update Courses’ Prof Name** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the courses’ Prof name. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin updates courses' Prof name. |
| Exit | The course now has a professor. |

| **USE CASE** | **Update Course Name** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the course name. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin updates course section number. |
| Exit | The name for the selected course is now updated. |

| **USE CASE** | **Update Course Time Slot** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the course time slot. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course time slot.  3. System presents available courses  4. Admin selects target course.  5. Admin updates course time slot. |
| Exit | The time slot for the selected course is updated in the system. |

| **USE CASE** | **Update Course Building** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the building. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin updates course building. |
| Exit | The building location for the selected course is updated in the system. |

| **USE CASE** | **Update Course Room Number.** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the Room number. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin updates course Room number. |
| Exit | The location for the course is updated in the system. |

| **USE CASE** | **Update Course Available Seats.** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to update the Courses’ available seats. |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course information.  3. System presents available courses.  4. Admin selects target course.  5. Admin updates course available seats. |
| Exit | The available seats for the selected course are updated in the system. |

| **USE CASE** | **Admin Creates Major Course Requirements** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create major course requirements. |
| Flow of events | 1. Admin logs in  2. Admin selects to create major course requirements.  3. Admin inputs major course requirements information. |
| Exit | The major requirements are created. |

| **USE CASE** | **Admin Creates a Major** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create a major |
| Flow of events | 1. Admin logs in  2. Admin selects to create a major.  3. Admin provides major name, description, department, and course requirements. |
| Exit | The major is created and added to the system's list of available majors. |

| **USE CASE** | **Admin Creates Minor Course Requirements** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create minor course requirements. |
| Flow of events | 1. Admin logs in  2. Admin selects to create minor course requirements.  3. Admin inputs minor course requirements information. |
| Exit | The minor requirements are created. |

| **USE CASE** | **Admin Creates a Minor** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to create a minor |
| Flow of events | 1. Admin logs in  2. Admin selects to create a minor.  3. Admin provides minor name, description, department, and course requirements. |
| Exit | The major is created and added to the system's list of available minors. |

| **USE CASE** | **Admin Sets Course Prerequisites** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to set course prerequisites |
| Flow of events | 1. Admin logs in  2. Admin selects to set course prerequisites  3. Admin selects a course.  4. The admin selects one or more prerequisite courses for the target course. |
| Exit | The prerequisites for the target course are updated in the system. |

| **USE CASE** | **Assign faculty to course section** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to assign faculty to course section. |
| Flow of events | 1. Admin logs in  2. Admin selects course sections.  3. Admin selects to assign admin to course section.  4. The system presents a list of available faculty.  5. Admin assigns target faculty member to course section. |
| Exit | Faculty member is assigned to the course. |

| **USE CASE** | **Add student to course section** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to add student to course section |
| Flow of events | 1. Admin logs in  2. Admin selects course sections.  3. Admin selects to add student to course section.  4. The system presents a list of available students.  5. Admin adds target student to course section. |
| Exit | The student is now part of the course section |

| **USE CASE** | **Drop student from course section** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to drop student from course section |
| Flow of events | 1. Admin logs in  2. Admin selects course sections.  3. Admin selects to drop student from course section.  4. The system presents a list of available students.  5. Admin dropped target student from course section. |
| Exit | The student is now dropped from the course section. |

| **USE CASE** | **Add hold to student account** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to add student to course section |
| Flow of events | 1. Admin logs in  2. Admin selects to add hold on a student account.  3. The system presents a list of available students.  4. Admin adds the hold to the target students account. |
| Exit | The student now has a hold on their account. |

| **USE CASE** | **Remove hold from student account** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to remove hold from student account |
| Flow of events | 1. Admin logs in  2. Admin selects to remove hold from a student account.  3. The system presents a list of available students.  4. Admin removes the hold on the students account. |
| Exit | The student no longer has a hold on their account. |

| **USE CASE** | **Update Student Grade in Course Section** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has update a students grade |
| Flow of events | 1. Admin logs in  2. Admin selects course sections.  3. Admin selects to upgrade a students grade.  4. System presents a list of available students.  5. Admin updates the target students grade. |
| Exit | The student is now part of the course section. |

| **USE CASE** | **View Student Degree Audit** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to view students Degree audit |
| Flow of events | 1.Admin logs in.  2. Admin selects to view degree audits.  3. System provides a list of students.  4. Admin selects the target student.  5. The students degree audit is retrieved. |
| Exit | The admin can view the students degree audit |

| **USE CASE** | **View Unofficial Transcript** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to view students Unofficial Transcript |
| Flow of events | 1. Admin logs in.  2. Admin selects to view unofficial transcripts.  3. System provides a list of students.  4. Admin selects the target student.  5. The students unofficial transcript is retrieved. |
| Exit | The admin can view the students unofficial transcript. |

| **USE CASE** | **View Student information** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to view a student’s information |
| Flow of events | 1.Admin logs in.  2. Admin selects to view student information.  3. System provides a list of students.  4. Admin selects the target student.  5. The students information is retrieved. |
| Exit | The admin can view the students information. |

| **USE CASE** | **View Faculty Schedules** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to view Faculty schedules |
| Flow of events | 1. Admin logs in.  2. Admin selects to view faculty schedules.  3. System provides a list of faculty.  4. Admin selects the target faculty member.  5. The faculty schedule is retrieved. |
| Exit | The admin can view the faculties schedule. |

| **USE CASE** | **View class roster for course sections** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to view the class roster for a course section. |
| Flow of events | 1. Admin logs in.  2. Admin selects to course section.  3. System provides a course sections.  4. Admin selects the target course section.  5. The system retrieves the infomation |
| Exit | The admin can review the class roster in the target course section. |

| **USE CASE** | **Add major to student** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to add major to student academic profile. |
| Flow of events | 1.Admin logs in  2. Admin selects view student information  3. System provides a list of students  4. Admin selects student. |
| Exit | Admin can add the major to the students information |

| **USE CASE** | **Drop major from student** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to drop major from student information. |
| Flow of events | 1.Admin logs in.  2. Admin selects view student information  3. System provides a list of students  4. Admin selects student. |
| Exit | Admin can drop the major from the students information. |

| **USE CASE** | **Add minor to student** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to add minor to student academic profile. |
| Flow of events | 1.Admin logs in.  2. Admin selects to view student information  3. System provides a list of students  4. Admin selects student. |
| Exit | Admin can add the minor to the students information |

| **USE CASE** | **Drop minor from student** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin has to drop minor from student information. |
| Flow of events | 1.Admin logs in.  2. Admin selects view student information  3. System provides a list of students  4. Admin selects student. |
| Exit | Admin can drop the minor from the students information. |

| **USE CASE** | **Assign faculty to course section - Failure** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin tries to assign more than 2 courses to full-time faculty member |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course section information.  3. Admin selects to assign faculty to course section.  4. System identifies faculty member as full-time  5. System counts faculty course assignments to be more than 2.  6. System enforces the course assignment limit. |
| Exit | The admin failed to assign target faculty member to course because of the course assignment limit. |

| **USE CASE** | **Assign faculty to course section - Failure** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin tries to assign more than 1 course to part-time faculty member |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course section information.  3. Admin selects to assign faculty to course section.  4. System identifies faculty member as part-time.  4. System counts faculty course assignments to be more than 1.  5. System enforces the course assignment limit. |
| Exit | The admin failed to assign target faculty member to course because of the course assignment limit. |

| **USE CASE** | **Assign faculty to course section - Failure** |
| --- | --- |
| List of actors | Admin |
| Initial Conditions | Admin tries to assign more than 1 course to part-time faculty member |
| Flow of events | 1. Admin logs in.  2. Admin selects to update course section information.  3. Admin selects to assign faculty to course section.  4. System identifies faculty member as part-time.  4. System counts faculty course assignments to be more than 1.  5. System enforces the course assignment limit. |
| Exit | The admin failed to assign target faculty member to course because of the course assignment limit. |

**4.4 FACULTY**

| **USE CASE** | **Faculty can view personal Fall ‘23 schedule** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty viewing personal schedule of Fall ‘23 |
| Flow of events | 1. Faculty logins 2. Faculty goes to personal schedule 3. Faculty view Fall ‘23 schedule |
| Exit | The Faculty can view their Fall ‘23 Schedule |

| **USE CASE** | **Faculty can view personal Spring ‘24 schedule** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty viewing personal schedule of Spring ‘24 |
| Flow of events | 1. Faculty logins 2. Faculty goes to personal schedule 3. Faculty view Spring ‘24 schedule |
| Exit | The Faculty can view their Spring ‘24 Schedule |

| **USE CASE** | **Faculty views Roster for class of Fall ‘23 or Spring ‘24** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty attempts to view Roster |
| Flow of events | 1. Faculty logins 2. Faculty goes to personal schedule 3. Faculty decides to see the schedule of Fall ‘23 or Spring ‘24 4. Faculty picks the class OR specific class if the Faculty teaches more than one class. 5. Faculty views Roster of specific class. |
| Exit | The Faculty can view their Roster for a specific class and year. |

| **USE CASE** | **Faculty views Student ID for class of Fall ‘23 or Spring ‘24** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty attempts to view a Student ID |
| Flow of events | 1. Faculty logins 2. Faculty goes to personal schedule 3. Faculty decides to see the schedule of Fall ‘23 or Spring ‘24 4. Faculty picks the class OR specific class if the Faculty teaches more than one class. 5. Faculty views Roster of specific class. 6. Faculty clicks the name of a Student. 7. Can now see the Student ID number. |
| Exit | The Faculty can view Student/Students ID Number for a specific class and year. |

| **USE CASE** | **Faculty views Student Email for class of Fall ‘23 or Spring ‘24** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty attempts to view a Student Email |
| Flow of events | 1. Faculty logins  2. Faculty goes to personal schedule  3. Faculty decides to see the schedule of Fall ‘23 or Spring ‘24  4. Faculty picks the class OR specific class if the Faculty teaches more than one class.  5. Faculty views Roster of specific class. 6. Faculty clicks the name of a Student.  7. Can now see the Student Email. |
| Exit | The Faculty can view Student/Students Email for a specific class and year. |

| **USE CASE** | **Faculty views Transcript of Student for class of Fall ‘23 or Spring ‘24** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty attempts to view a Student Transcript |
| Flow of events | 1.Faculty logins  2. Faculty goes to personal schedule  3. Faculty decides to see the schedule of Fall ‘23 or Spring ‘24  4. Faculty picks the class OR specific class if the Faculty teaches more than one class.  5. Faculty views Roster of specific class. 6. Faculty clicks the name of a Student.  7. Faculty clicks on Student Transcript.  8. Faculty now viewing Student transcript |
| Exit | The Faculty can view Student/Students Transcript for a specific class and year. |

| **USE CASE** | **Faculty views Advisors of Student for class of Fall ‘23 or Spring ‘24** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty attempts to view a Student Advisors |
| Flow of events | 1. Faculty logins  2. Faculty goes to personal schedule  3. Faculty decides to see the schedule of Fall ‘23 or Spring ‘24  4. Faculty picks the class OR specific class if the Faculty teaches more than one class.  5. Faculty views Roster of specific class. 6. Faculty clicks the name of a Student.  7. Faculty clicks on Student Advisors  8. Faculty now viewing Student Advisors |
| Exit | The Faculty can view Student/Students Advisors for a specific class and year. |

| **USE CASE** | **Faculty keeping track of attendance** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty marking which Students are in class and which Students are not in class |
| Flow of events | 1.Class has begun.  2. Faculty takes attendance  3. Faculty logins  4. Faculty goes to personal schedule  5. Faculty decides to see the schedule of Fall ‘23 or Spring ‘24  6. Faculty picks the class OR specific class if the Faculty teaches more than one class.  7. Faculty views Roster of specific class. 8. Faculty updates the info of who is in class |
| Exit | The Faculty updated today class attendance before 11:59pm |

| **USE CASE** | **Faculty assigning semester grade before time-slot** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty has to assign semester grade before time-slot |
| Flow of events | 1. Faculty logins  2. Faculty goes to personal schedule  3. Faculty decides to see the schedule of Fall ‘23 or Spring ‘24  4. Faculty picks the class OR specific class if the Faculty teaches more than one class.  5. Faculty views Roster of specific class. 6. Faculty assigns the semester grade of each student. |
| Exit | The Faculty assigned semester grades before time-slot |

| **USE CASE** | **Faculty teaching load** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty teaching load based on employment status. |
| Flow of events | 1. Faculty member's employment status is identified as full-time or part-time. 2. If the faculty member is full-time, the system checks if they are already teaching 2 classes. If not, they can be assigned to another class. If they are teaching 2 classes, no further assignments are allowed. 3. If the faculty member is part-time, the system checks if they are already teaching 1 class. If not, they can be assigned to another class. If they are teaching 1 class, no further assignments are allowed. |
| Exit | Faculty members are assigned to classes per the defined limits: full-time can teach up to 2 classes, part-time can teach up to 1 class. |

| **USE CASE** | **Limit on Faculty Affiliations** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | The constraint on the number of departments a faculty member can be affiliated with. |
| Flow of events | 1. Faculty member's affiliation with departments is identified. 2. The system checks the number of departments the faculty member is currently affiliated with. 3. If the faculty member is affiliated with 3 or fewer departments, they can continue their affiliation with additional departments if desired. 4. If the faculty member is already affiliated with 3 departments, the system prevents further affiliations and displays an error message. |
| Exit | Faculty members affiliated with more than 3 Dept. is not allowed. |

| **USE CASE** | **Restriction on Teaching Outside Department** |
| --- | --- |
| List of actors | Faculty Member, Department Coordinator |
| Initial Conditions | Faculty members cannot teach courses outside of their affiliated department. |
| Flow of events | 1.Faculty member expresses interest in teaching a course.  2. The system checks the faculty member's department affiliation.  3. The system checks the department assignment of the course.  4. If the faculty member's department affiliation matches the department assignment of the course, they are allowed to teach the course.  5. If the faculty member's department affiliation does not match the department assignment of the course, the system prevents the assignment and notifies the faculty member and Department Coordinator. |
| Exit | Faculty Members are not allowed to teach outside their dept. |

| **USE CASE** | **Restriction on Taking Attendance Outside Department** |
| --- | --- |
| List of actors | Faculty Members , Department Coordinator |
| Initial Conditions | Faculty members cannot take attendance for courses outside of their affiliated department. |
| Flow of events | 1.Faculty member is responsible for taking attendance in a course.  2. The system checks the faculty member's department affiliation.  3. The system checks the department assignment of the course for which attendance is to be taken.  4. If the faculty member's department affiliation matches the department assignment of the course, they are allowed to take attendance.  5. If the faculty member's department affiliation does not match the department assignment of the course, the system prevents them from taking attendance and notifies the faculty member and Department Coordinator |
| Exit | Faculty members cannot take and update attendance outside their dept. |

| **USE CASE** | **Restriction on Faculty Grade Assignment** |
| --- | --- |
| List of actors | Faculty Members, Department Coordinator, Registra |
| Initial Conditions | Faculty members cannot assign grades to students for courses |
| Flow of events | 1.Faculty member completes the teaching of a course.  2. The system identifies that the course has been completed.  3. The system checks for faculty member privileges.  4. Since faculty members do not have grading privileges, they are unable to assign grades directly.  5. The registrar or Department Coordinator who have the authority to assign grades, are responsible for grading the students in the course. |
| Exit | Faculty members cannot assign grades directly. |

| **USE CASE** | **Faculty Advisor Requirement** |
| --- | --- |
| List of actors | Faculty |
| Initial Conditions | Faculty members must have at least 10 advisees or students for advising. |
| Flow of events | 1.Faculty member's role as an advisor is identified.  2. The system checks the number of advisees the faculty member currently has.  3. If the faculty member has 10 or more advisees, they meet the requirement and can continue advising.  4. If the faculty member has fewer than 10 advisees, the system notifies them and recommends assigning more advisees to meet the requirement. |
| Exit | Faculty members have a minimum of 10 advisees to fulfill the advising requirement. |

| **USE CASE** | **Restriction on Changing Email Addresses and User IDs** |
| --- | --- |
| List of actors | Faculty, Admin |
| Initial Conditions | Faculty is not allowed to change their email addresses and user ID. |
| Flow of events | 1. User requests to change their email address or user ID. 2. The system checks the user's request. 3. The system verifies that the requested change is related to their email address or user ID. 4. If the change request is related to their email address or user ID, the system prevents the change and notifies the user that such changes are not permitted. 5. If the change request is related to other account details (e.g., password, contact information), the system allows the user to make the necessary updates. |
| Exit | Faculty are unable to change their email addresses or user IDs within the system. |

| **USE CASE** | **Restriction on Faculty Access to User Information** |
| --- | --- |
| List of actors | Faculty, Admin |
| Initial Conditions | Faculty members are not allowed to access other users' information, except for their advisees. |
| Flow of events | 1. Faculty member attempts to access user information. 2. The system checks the faculty member's access permissions. 3. If the faculty member's access request is related to their own advisees, the system allows access to the information. 4. If the access request is related to other users who are not their advisees, the system denies access and notifies the faculty member that they do not have permission to view this information. |
| Exit | Faculty can only access the information of their advisees. Access to other users' information is restricted. |

**4.5 STATISTICS OFFICE**

| **USE CASE** | **View Percentage of Graduate Students** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the percentage of graduate students |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the retrieved statistics to the stats office. |

| **USE CASE** | **View Percentage of Full-Time Students** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the percentage of Full-Time Students |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the Percentage of Full-Time Students. |

| **USE CASE** | **View Percentage of Part-Time Students** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the percentage of part-time students. |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the retrieved statistics to the stats office. |

| **USE CASE** | **View Number of Master Students** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the percentage of Master students. |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the retrieved statistics to the stats office. |

| **USE CASE** | **View Number of Ph.D. Students** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the Number of Ph.D. students. |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the retrieved statistics to the stats office. |

| **USE CASE** | **View Graduation Rate** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the Graduation rate based on the number of years specified by Stats Office |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the retrieved statistics to the stats office. |

| **USE CASE** | **View Number of Majors** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the Number of different academic Majors |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the retrieved statistics to the stats office. |

| **USE CASE** | **View Number of Minors** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | Statistics Office attempts to view the Number of different academic Minors. |
| Flow of events | 1. The stats office logs in.  2. The stats office selects “View Overall School Statistics.”  3. The system retrieves the previously generated school statistics from the database. |
| Exit | System displays the retrieved statistics to the stats office. |

| **USE CASE** | **Access Restrictions for the Statistics Office** |
| --- | --- |
| List of actors | Statistics Office |
| Initial Conditions | The system has user roles and permissions defined in the SRS. The Statistics Office user accounts are created and configured according to their specified roles.. |
| Flow of events | 1. The System Administrator configures user roles and permissions based on the Statistics Office's SRS requirements.  2. The Statistics Office users log into the system with their credentials.  3. The system checks the user's role and permissions for each action they attempt to perform.  4. If the user's role and permissions permit the action, the system allows it. Otherwise, it denies access and displays an error message. |
| Exit | The Statistics Office users have access to system resources and functions as defined in their Required SRS. |