University of North Alabama

Advising System
Use-Case Specification: Advisor Registers Advisee

Version 1.0

Revision History

Date	Version	Description	Author
02/10/20	1.0	Initial creation	Bryon Miller

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Use-Case Specification: Advisor Registers Advisee

1. Use-Case Name

1.1 Brief Description

This use case describes the process of an Advisor registering an Advisee utilizing the Advising System.

2. Flow of Events

2.1 Basic Flow

1. Advisor views the degree plan and requirements for the Advisee.
2. Advisor selects a course from the degree plan to add to the Advisee's schedule.
3. Advisor views the requirements for the course in the Advising System.
4. Advisor checks to see if requirements have been met for the Advisee to take the course.
5. If the requirements have been met, then the Advisor checks the course schedule in the Registrars Database to see if the course is available.
6. If the course is available, the Advisor registers the Advisee for the class.
7. The course is added to the Advisee's schedule.
8. The Registrars Database is updated with the changes to the Advisee's schedule.
9. The Advisor reviews the Advisee's schedule and returns to Step 2 if more classes are to be added.

2.2 Alternative Flows

2.2.1 Requirements Not Met

1. If the requirements for a course have not been met (see 2.1, Step 5 above), then the Advisor can request approval to override the requirements.
2. If the override is approved, then the Advisor can proceed to check the course schedule for the course. If it is not approved, then the Advisor must choose a new course from the degree plan.
3. If the course is available, then the Advisor can proceed to register the student for the course. If it is not, then the Advisor can choose a new course from the degree plan.

2.2.2 Course Not Available

1. If the course is unavailable (see 2.1, Step 6) there are two possible reasons with two alternative subflows.

2.2.2.1 Course Not on Schedule

1. If the course is not on the schedule, then the Advisor can either return to the degree plan to select another class or request that the course be added to the schedule.
2. If the course is approved to be added, then the Advisor can proceed to the next step in registering the Advisee for it (see 2.2, Step 7 above). Otherwise, the Advisor must choose a new course.

2.2.2.2 Course Not Open

1. If the course is on the schedule, but is not open, then the Advisor can either return to the degree plan to select another class or request that a spot be opened for the Advisee.

2. If a spot is opened, then the Advisor can proceed to the next step in registering the Advisee for it (see 2.2, Step 7 above). Otherwise, the Advisor must choose a new course.

3. Special Requirements

3.1 Usability

The system should be easy to access and use by Advisors.

3.2 Access

Advisors should have sufficient privileges to view the necessary data (degree plans, course schedule, course requirements, etc.) and to add/drop classes from an Advisee's schedule.

4. Preconditions

4.1 Login

The user has been authenticated to the system and has sufficient privileges to initiate the use case.

5. Postconditions

5.1 Schedule

The Advisee's schedule will be saved after every Advisor registration session regardless of any changes being made. If no changes are made, then the schedule will not be altered, but it will be noted in the audit trail that the Advisor entered the registration process for the Advisee.

5.2 Audit Trail

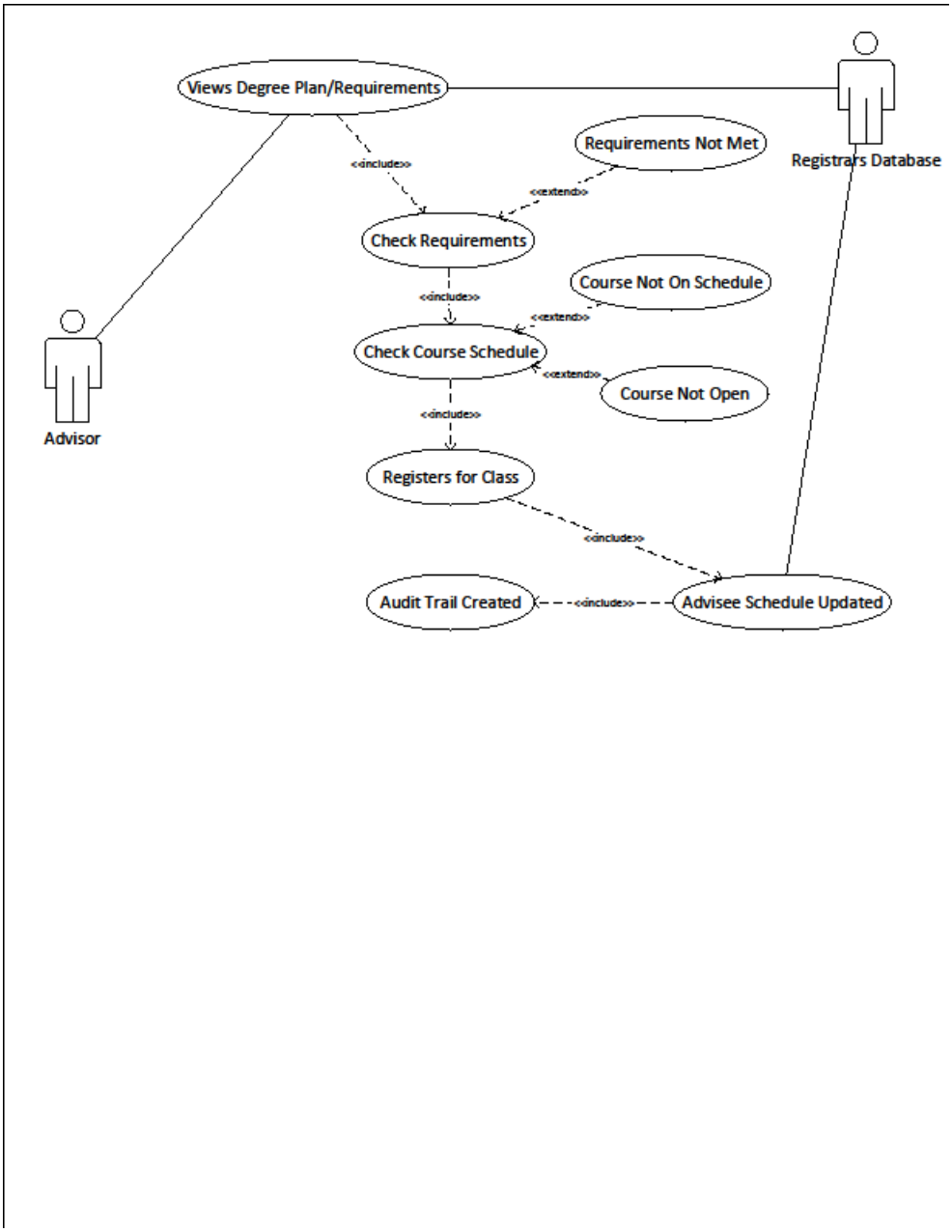
An audit trail will be generated after every session which will record sessions initiated, changes made, and the actors involved.

6. Extension Points

6.1 Return to Degree Plan

The Advisor will be forced to return to the degree plan (see 2.1, Step 1-2 above) to select another course for the Advisee if certain conditions are not met. This can occur at various points throughout the process. When returned in this way, a message will appear explaining why the Advisor was returned to the degree and unable to register the Advisee for the course.

7. Use-Case Diagram



University of North Alabama

Advising System
Use-Case Specification: Advisee registration

Version 1.0

Revision History

Date	Version	Description	Author
02/11/2020	1.0	Initial creation	Andry Ndongosieme

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Use-Case Specification: Advisee Registration

1. Select Semester

1.1 Brief Description

Select semester is one of the use case that the Advisee is the main actor. It describes the steps of selecting a semester by an Advisee in the Advising System.

2. Flow of Events

2.1 Basic Flow

1. The advisee log into the advising system with his credentials.
2. Once logged in, the advisee can select the semester.
3. After selecting the semester, the system will prompt the available courses for the available semester.
4. According to his level of education, the user can view and select courses.
5. The advising system will check if the requirements are met before proceeding to the registration.
6. Once the requirements met the advisee can register to his classes.
7. At the end of registration, the registrar's database will be updated with the registered courses for the given advisee and the advisee should be able to see his class schedule.

2.2 Alternative Flows

2.2.1 Login error

1. After certain number of attempt to log into the system the Advisee should be able to reset his password
2. In order to reset the password he has to enter his mail address and confirm it
3. Once he obtained the link sent to his mail box he can set a new password and continue his operation(see 2.1, Step 2)

2.2.2 Requirement not Met

1. If the requirements aren't met, the Advisor can request an approval to override the requirements if the Advisee has some legit reasons for not meeting the requirements.
2. Either it works or not the Advisor should take the proper action and notice the Advisee.
3. Once the requirement issue solved, the Advisee can continue his operation(see 2.1, Step 6)

3. Special Requirements

3.1 Usability and Access

The advising system should be easy for any user to use and interact with it. To access the system every user/Advisee needs enter the credentials provided or reset a new passwords if the older one got lost.

4. Preconditions

4.1 Login

The user has to be logged in the Advising System in order for him to interact with it.

5. Postconditions

5.1 Registration

If the user is done with selecting his courses and got his schedule it means that he has been registered in the registrar's database.

6. Extension Points

6.1 Requirements met

This is step is the most important one because there are some requirements that an Advisee will need in order for him to select a semester or even his courses. If the Advisee fail this step his Advisor can work it out depending on the Advisee reason for not meeting the requirements. Once the requirement met the Advisee can go on and select a semester to register.

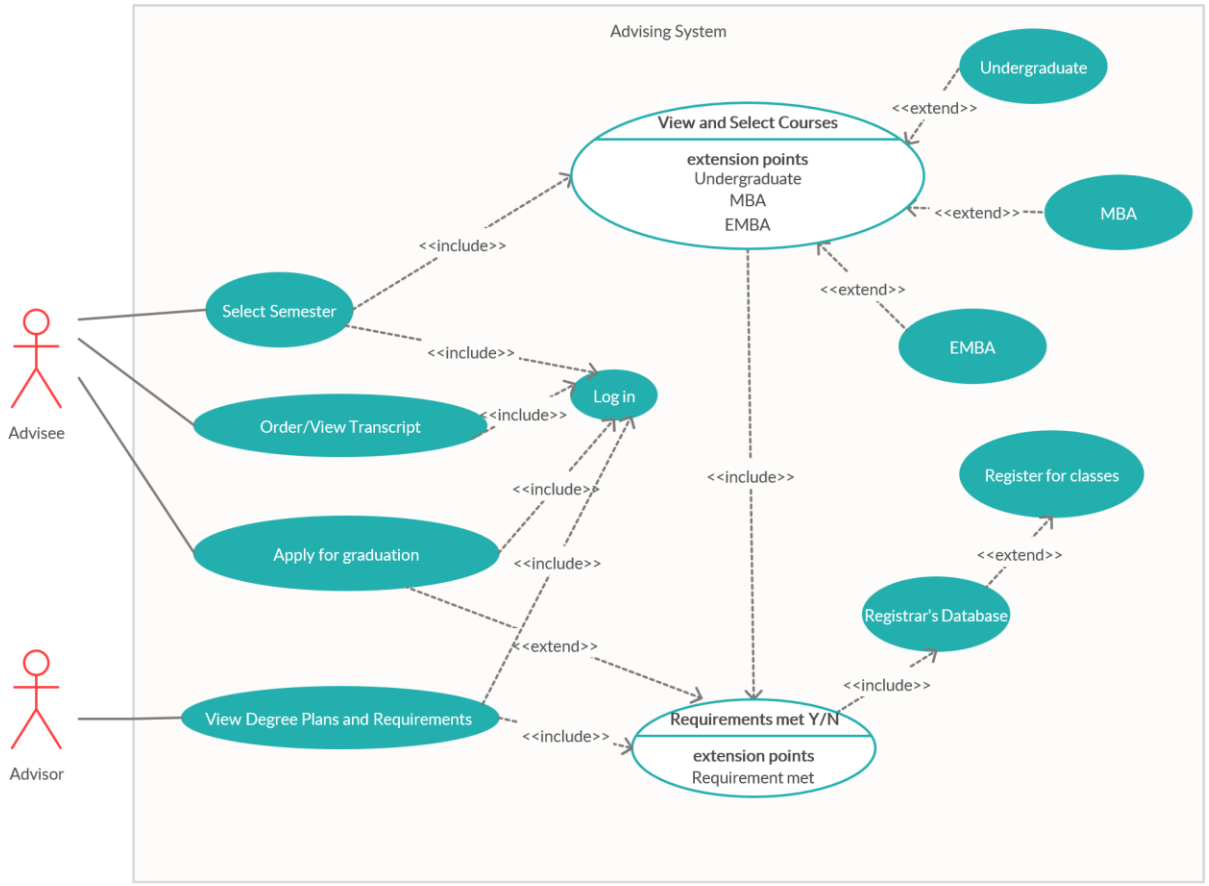
6.2 Register for classes

To be listed in the registrar's database one has to be eligible and met every requirements. Once requirements met the Advisee is automatically added in the database and this step is the last of the registration process because the rest will be done automatically. Once the Advisee's name is in the registrar's database he can see his classes schedule for the semester.

6.3 Undergraduate, MBA & EMBA

These extension points are linked to every advisee. Whenever an Advisee is logged in and is about to select courses. The courses that shows are linked to his level of study. He doesn't need to specify it all he needs is to log in with the proper credentials.

7. Use case Diagram



University of North Alabama

Active Directory Authentication
Use-Case Specification: User Authentication

Version 1.0

Revision History

Date	Version	Description	Author
2/10/2020	1.0	Initial Creation	Sai Namilakonda

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Use-Case Specification: Guessing Game

1. Use-Case Name

1.1 Brief Description

2. User Authentication - Individual or User administration by means of Active directory Authentication confirms to build a establish session token that can subsequently be used as a proxy for the user.

3. Flow of Events

3.1 Basic Flow

3.2 A user logs on to the Logon service and retrieves a certificate. A later connection to login to the Active Directory system uses the previously generated certificate to assert identity with the Coordinating Node

3.3 The Coordinating Node looks up the user's identities, retrieving multiple known identities for the user

3.4 The Coordinating Node generates an encrypted XML document (e.g. SAML) which contains the known identities of the user and returns the document as the authentication token

3.5 The token is the used to identify the user in a get () request against a Member Node, which checks for a known alias in its own user database and A successful verification

3.6 indicates the identity of the user, and verifies that the user has access to the object (not shown), then returns the object

3.7 An initial process of identity sharing (0) is used to generate the identities database at the Coordinating Nodes. Alternative Flows

4 **Actors**

User, Member Node, Coordinating Node, Authentication System

5 Preconditions

- User is not authenticated in the system

6 Triggers

- A user logs on to the Active Directory system.
- A user tries to perform an operation in Active Directory system that requires authentication.

7 Post Conditions

- An *AUTH token* is returned to the user (application) that can be used for future interactions with the Active Directory system.
- In the event of authentication failure, the *AUTH token* will provide identity equivalent to an anonymous user.
- The authentication operation is recorded in CN logs (depending on where the authentication attempt was made)
- The *AUTH token* is trusted by participant Member Nodes as a proxy for the actual user.

8.Use Case Diagram: