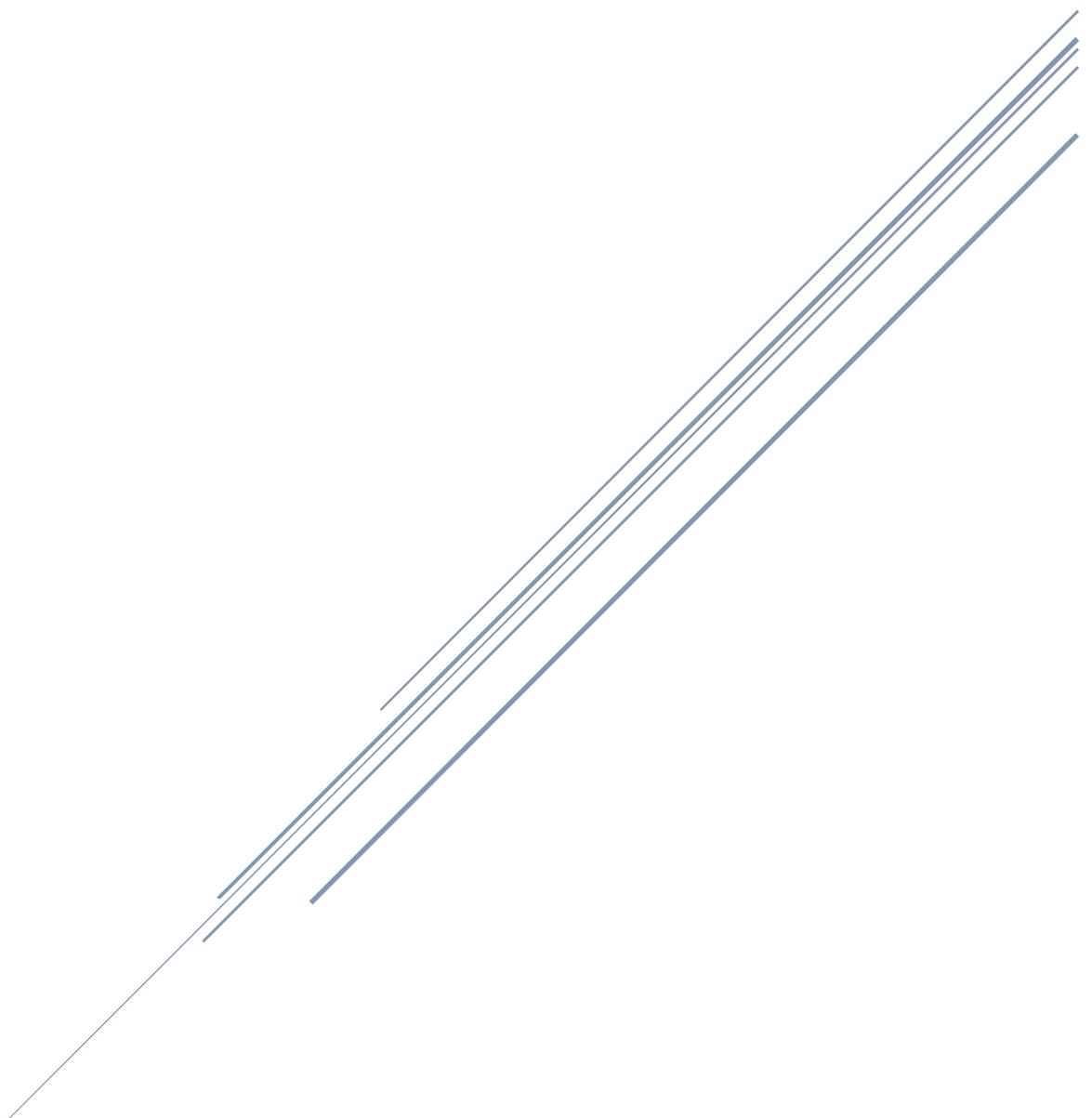


ELABORATION SPECIFICATION

Honey Bunches of GOATs



CIS 320-01

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System Requirements

Listed below are the functional and non-functional requirements of the Branches™ system. These functionalities are necessities that must be implemented if the system is to resolve the problem of attrition within the CIS program. Here are each of the requirements listed in hierarchical fashion to demonstrate importance.

Functional Requirements

1. Enroll User

1. Student shall enroll as an underclassman.
2. Student shall enroll as an upperclassman.
3. Alumnus shall enroll as an Alumnus.

2. Authenticate User

1. Program admin shall approve enrollment.
2. Program admin shall deny enrollment.

3. Match User

1. System shall match student with mentor.
2. System shall match alumnus with mentee.

4. Secure Donations

1. Alumnus shall donate.

5. Host Communication Channel

1. Student shall communicate through a private channel.
2. Alumnus shall communicate through a private channel.
3. Admin shall communicate through a private channel.

6. Update Calendar

1. Admin shall highlight important dates.
2. Alumnus shall set timeslots.
3. Students shall schedule appointments.
4. Mentor shall set objectives.

7. Report Crisis

1. Student shall report a crisis.
2. Alumnus shall report a crisis.
3. Admin shall be alerted of any crisis.

8. Report Diagnostics

1. Admin shall request reports.

9. Send Email Blast

1. Admin shall send out mass email.

Non-functional Requirements

1. Operational Requirements

1. The system shall be accessed through the utilization of a web server.
2. The system shall back-up data using the cloud.
3. The system shall manage and organize data using a DBMS.
4. The system shall be implemented using a CMS.
5. The system shall utilize a PMS to safely handle monetary transactions.

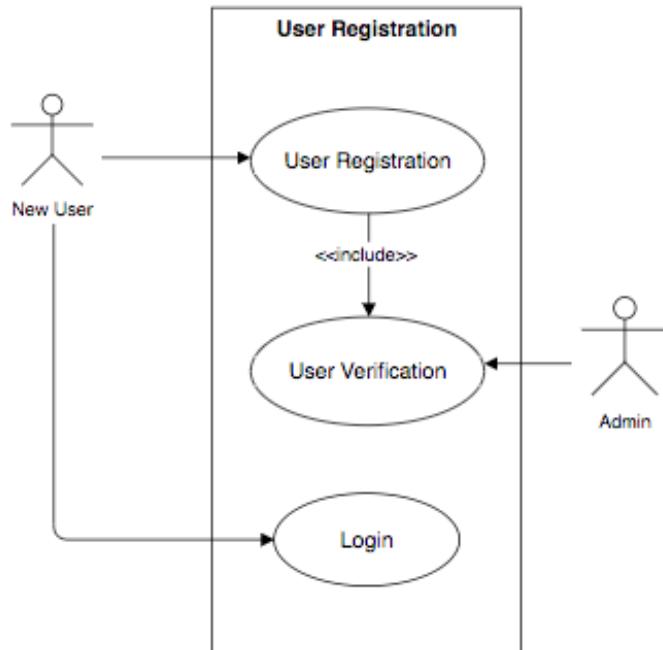
2. Security Requirements

1. Only authorized students shall be admitted to the program.
2. Only authorized alumnus shall be admitted to the program.

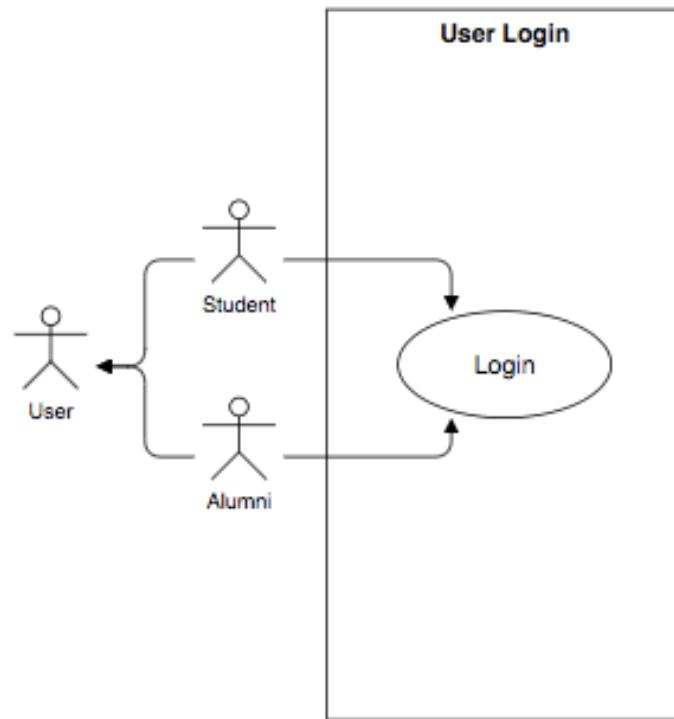
Use Case Diagrams

The use case diagrams below show the relationships between the users of the system with the different use cases. The diagrams are divided between five different segments, but they all use the same users- admin, alumni, upperclassman, and underclassman.

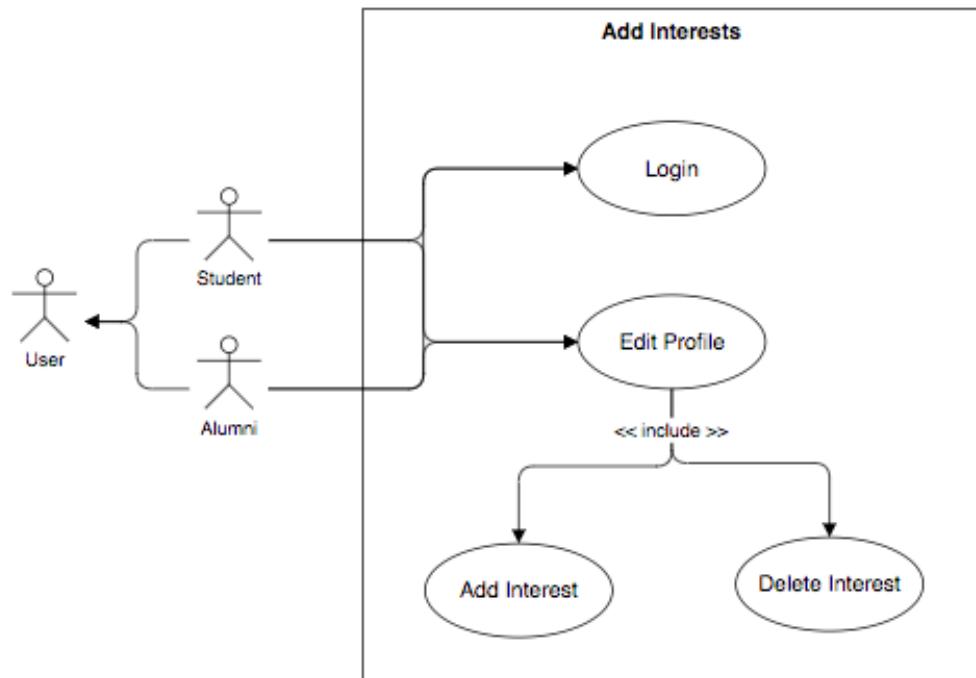
A new user will be an admin, student, or alumni user. Each new user account requires verification from a system administration account, which then allows the user to log in and use the system.



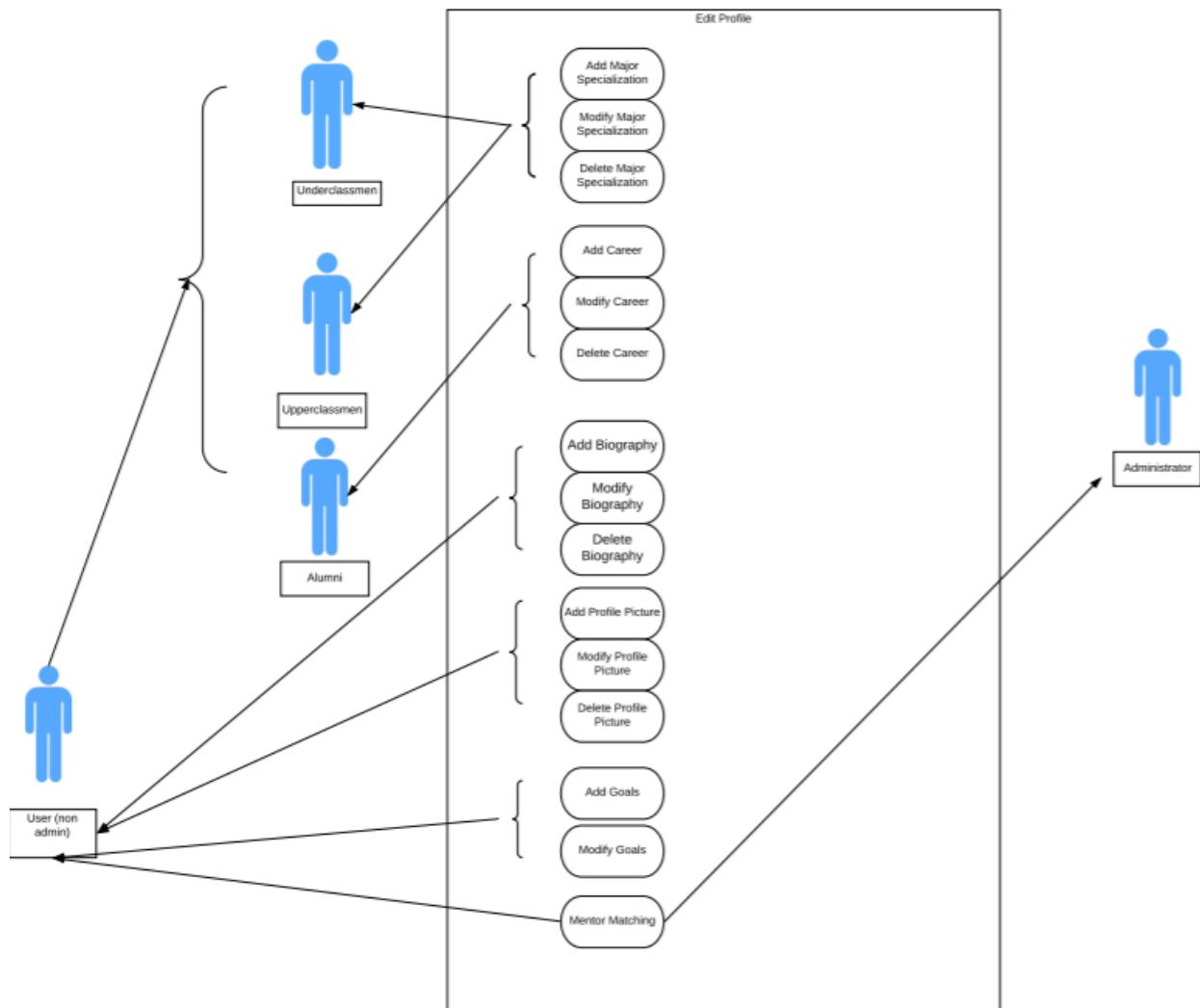
An established user can log into their account and begin using the Branches system.



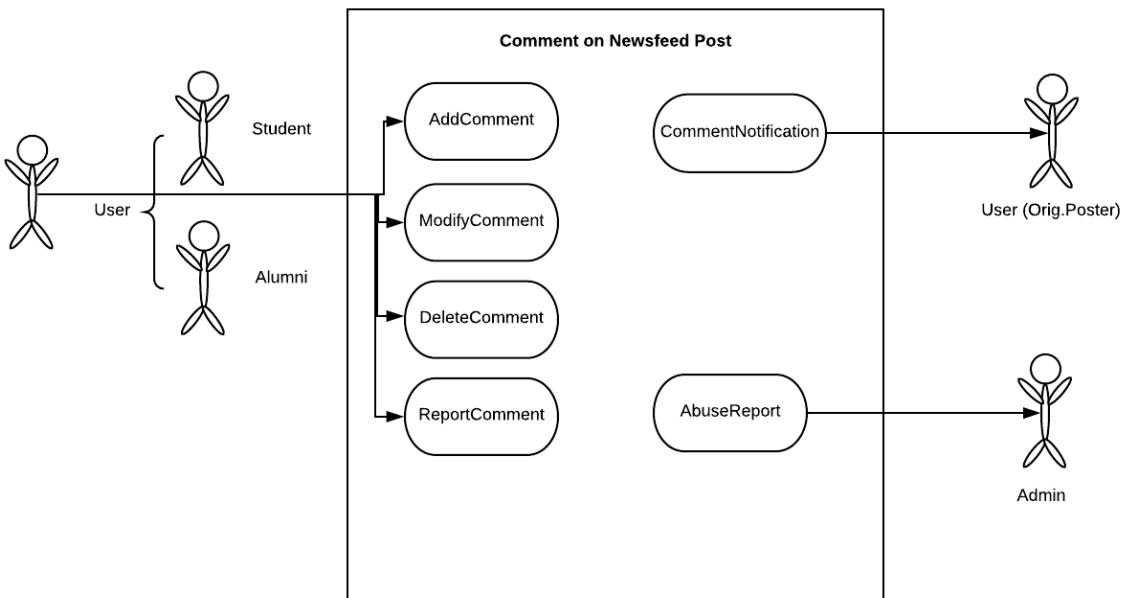
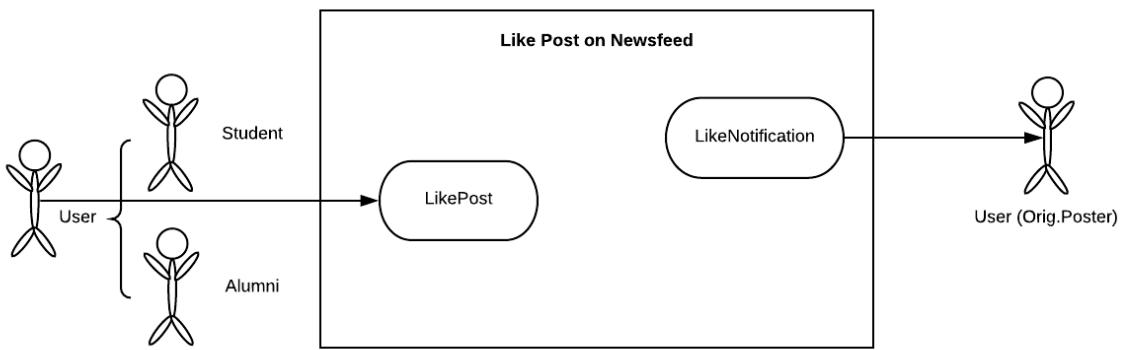
An established user – either a student user or alumni – can log into their account, access their profile information, and add or delete interests listed on their profile.

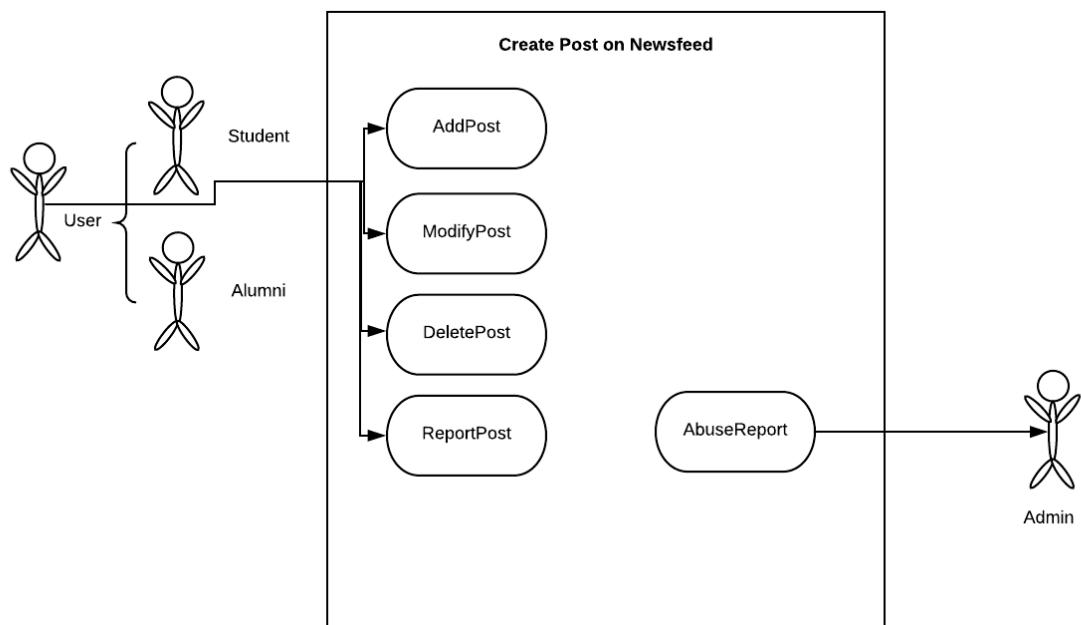
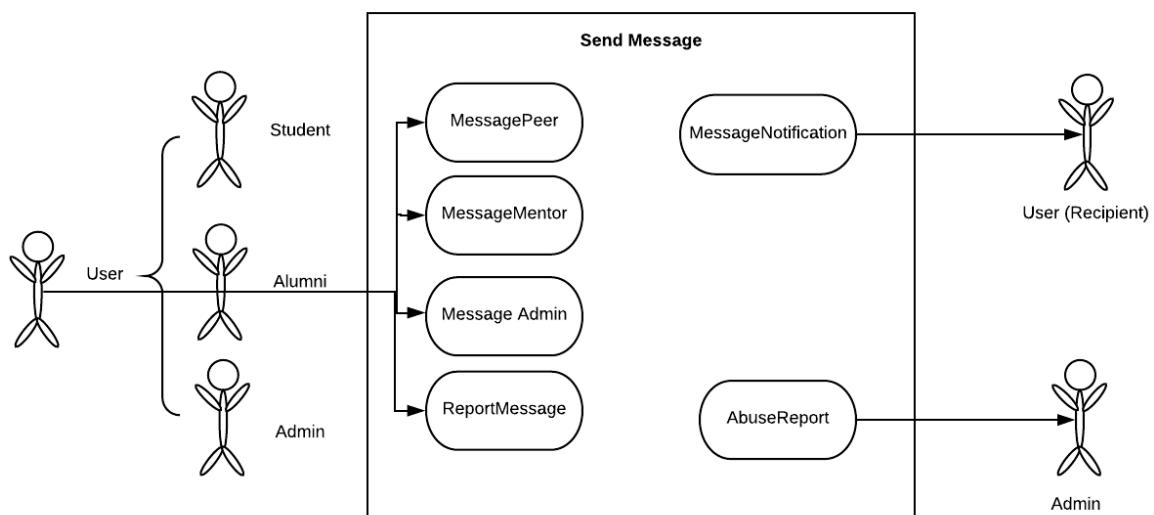


The use case diagram below describes the actors that take part in each use case. The following use cases are Biography, Career (for alumni) and Specialization (for student), Goal Setting, Mentor Matching, and Picture Uploading. The actors are underclassmen, upperclassmen, alumni, and administrator.

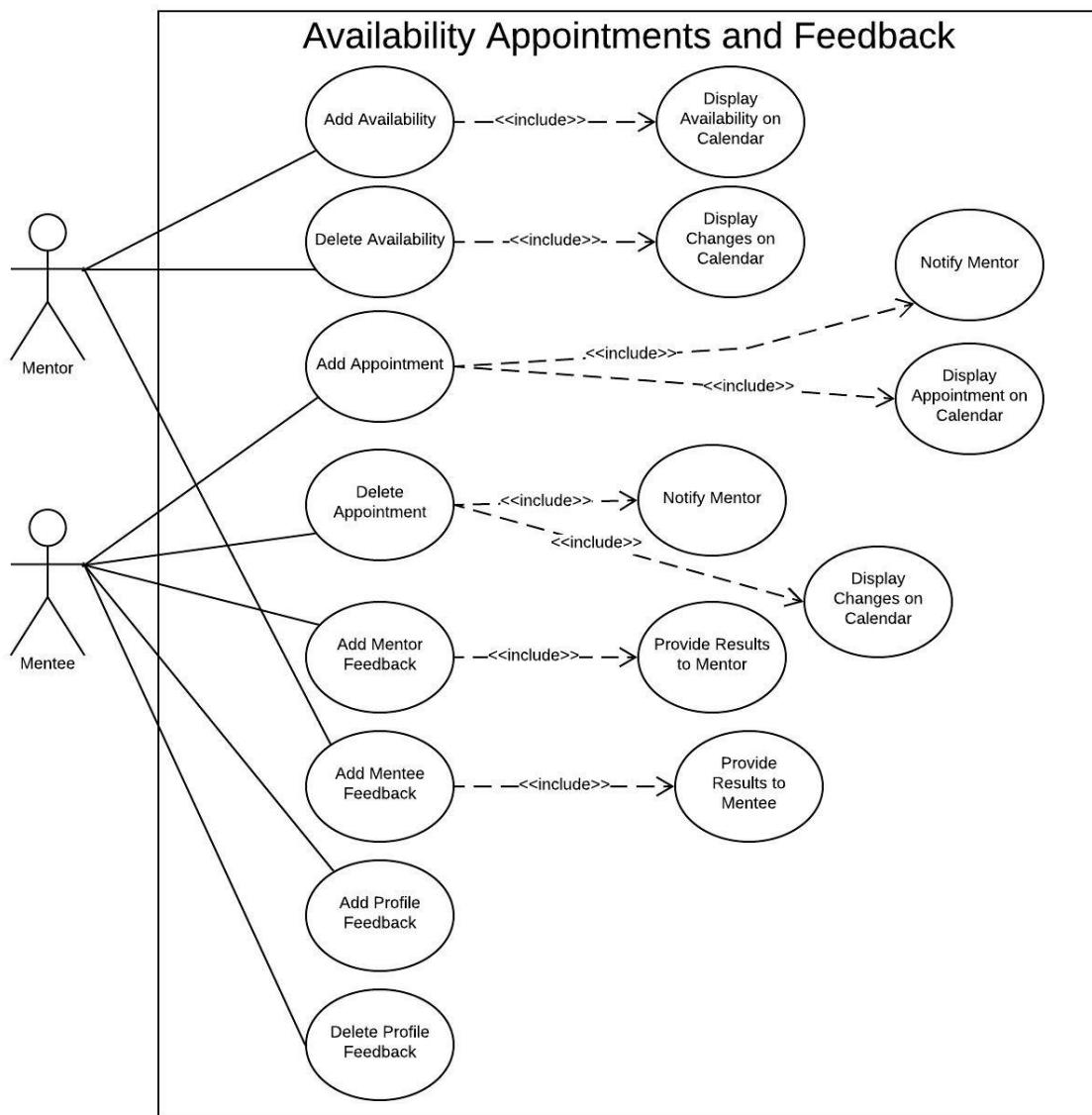


The use case diagrams below are related to messages on the newsfeed, and how the users interact with the newsfeed by liking commenting, and personally messaging other members within the system.

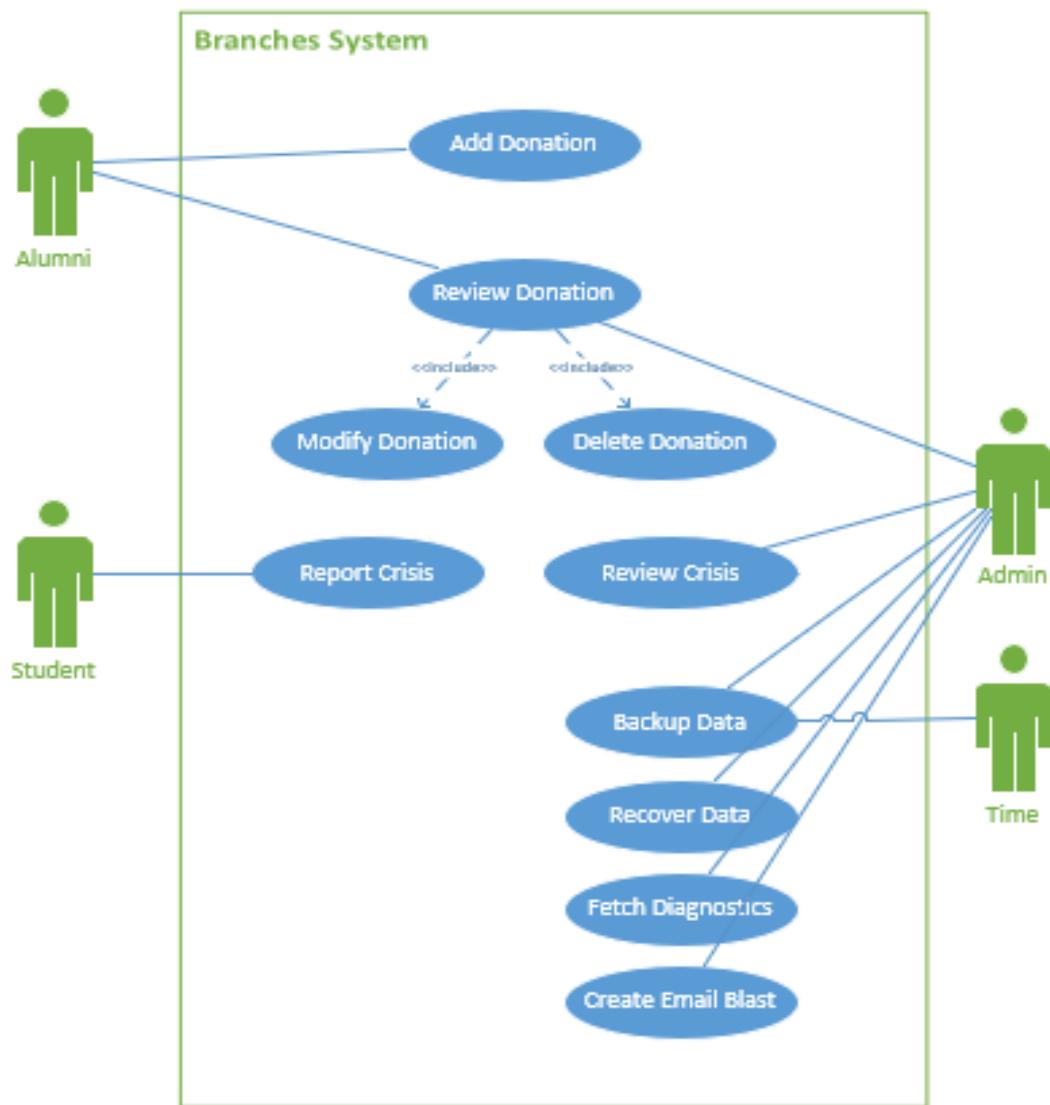




This use case diagram is related to the calendar and ways that users interact with it, by making appointments, giving feedback, etc.



This use case diagram is related to the donation that can be made to the CIS department through the system, as well as the crisis buttons and backups by the administrator.



Trace Matrix

On the next page you will find the trace matrix for the Branches™ system. The trace matrix is used to associate use cases with system requirements. The use cases are displayed on the horizontal access and the requirements are displayed on the vertical axis. The requirements highlighted in blue are functional requirements while the non-functional are highlighted in green. The trace matrix is a useful way to display all tasks that a system should do upon completion.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	blue = functional green = nonfunctional	Enrollment	Authentication	Matching	Donations	Communication Channel	Diagnostic	Calendar	Crisis Button	Feedback	Email Bias	Cloud Storage	Web Serve	DBMS	Security	PMS	CMS
2	Enroll in Program	x	x									x	x	x	x	x	
3	Add Administrator	x	x									x	x	x	x	x	x
4	Modify Administrator	x	x									x	x	x	x	x	
5	Delete Administrator	x	x									x	x	x	x	x	
6	Add Student - Upperclassman	x	x									x	x	x	x	x	
7	Modify Student - Upperclassman	x	x									x	x	x	x	x	
8	Delete Student - Upperclassman	x	x									x	x	x	x	x	
9	Add Student - Underclassman	x	x									x	x	x	x	x	
10	Modify Student - Underclassman	x	x									x	x	x	x	x	
11	Delete Student - Underclassman	x	x									x	x	x	x	x	
12	Add Alumni	x	x									x	x	x	x	x	
13	Modify Alumni	x	x									x	x	x	x	x	
14	Delete Alumni	x	x									x	x	x	x	x	
15	Login - Student																
16	Login - Alumni																
17	Login - Admin																
18	Add Interests	x		x								x	x	x		x	
19	Modify Interests	x		x								x	x	x		x	
20	Add Specialization	x		x								x	x	x		x	
21	Modify Specialization	x		x								x	x	x		x	
22	Add Career	x		x								x	x	x		x	
23	Modify Career	x		x								x	x	x		x	
24	Add Profile Picture	x										x	x	x		x	
25	Modify Profile Picture	x										x	x	x		x	
26	Delete Profile Picture	x										x	x	x		x	
27	Add Biography	x										x	x	x		x	
28	Modify Biography	x										x	x	x		x	
29	Add Mentor Matches			x								x	x	x		x	
30	Modify Mentor Matches			x								x	x	x		x	
31	Add Goals			x								x	x	x		x	
32	Modify Goals			x								x	x	x		x	
33	Add Message to Peer				x							x	x	x		x	
34	Add Message to Mentor				x							x	x	x		x	
35	Add Message to Admin				x							x	x	x		x	
36	Add Post on Newsfeed				x							x	x	x		x	
37	Modify Post on Newsfeed				x							x	x	x		x	
38	Delete Post on Newsfeed				x							x	x	x		x	
39	Add Comment to Post on Newsfeed				x							x	x	x		x	
40	Modify Comment to Post on Newsfeed				x							x	x	x		x	
41	Delete Comment to Post on Newsfeed				x							x	x	x		x	
42	Add Like to Post on Newsfeed				x							x	x	x		x	
43	Delete Like to Post on Newsfeed				x							x	x	x		x	
44	Add Availability in Calendar					x						x	x	x		x	
45	Modify Availability in Calendar					x						x	x	x		x	
46	Delete Availability in Calendar					x						x	x	x		x	
47	Add Appointment to Calendar					x						x	x	x		x	
48	Modify Appointment in Calendar					x						x	x	x		x	
49	Delete Appointment in Calendar					x						x	x	x		x	
50	Add Feedback to Mentee						x					x	x	x		x	
51	Add Feedback to Mentor						x					x	x	x		x	
52	Display Feedback on Profile					x						x	x	x		x	
53	Report Crisis						x					x	x	x	x	x	x
54	Review Crisis						x					x	x	x	x	x	x
55	Add Donation				x							x	x	x	x	x	x
56	Review Donation				x							x	x	x	x	x	x
57	Modify Donation				x							x	x	x	x	x	x
58	Delete Donation				x							x	x	x	x	x	x
59	Create Email Blast							x				x	x	x	x	x	x
60	Fetch Diagnostics					x						x	x	x	x	x	x
61	Backup data					x						x	x	x	x	x	x
62	Recover data					x						x	x	x	x	x	x

Use Case Specification: Add User - Administrator

1. Add Administrator

1.1 Brief Description

The administrator role will control the permissions of the student and alumni users.

Administrative users will also have access to run reports within the system and will receive error and crisis notifications from users as they are submitted. An administrator role will be created, modified, or deleted as necessary.

2. Flow of Events

2.1 Basic Flow

- Add Administrator User Role
 - A user requests a new account with the system
 - The system prompts the user for required information:
 - First name
 - Last name
 - Email address
 - Desired password
 - Gender
 - Professional title
 - Interests
 - User photo
 - The user submits the registration form
 - The system requests verification from system Admin role
 - Admin verifies the user as an Administrator
 - The system notifies the user that the account has been approved in an email to their provided email account, and provides a verification link
 - The user navigates back to the system via the verification link
 - The user provides their login credentials
 - The system validates the credentials and signs in the user
- Modify Administrator User Role
 - A user account will be promoted to administrator role as needed by the Key Administrator User (Project Sponsor)
 - An administrator account can be demoted to a regular user role (Alumni)
- Delete Administrator User Role
 - An administrator account can be deleted and removed from the system

2.2 Alternative Flows

User omits required account information

- The alternative flow begins at any time
- The user omits required information when registering account
- The system identifies to the user which field is required to continue the registration process.
- The user provides the information
- The basic flow resumes

Cancel

- The alternative flow begins at any time
- The user elects to cancel registration

3. Special Requirements

An Administrator User's account will be updated to have special features and access only available to administrative roles within the system. The system will be initially established with one Key Administrator Role, designed for the project sponsor, that will have permissions to promote, modify, or delete other users in the system.

3.1 Key Administrator User Role must be established

4. Pre-conditions

- 4.1 A user account is established
- 4.2 User account is identified and updated to have Administrative permissions

5. Post-conditions

- 5.1 The user account is established as an Administrative User account

6. Extension Points

- 6.1 None

Use Case Specification: Add User - Student, Underclassman

1. Add Student – Underclassman

1.2 Brief Description

A user that qualifies for an underclassman account (Freshman within the UofL system) will create an account. If and when necessary, the system administrators have authority to modify or delete the account. Once a user earns over 30 credit hours from the university, the user may request to update their account to Student – Upperclassman.

2. Flow of Events

2.1 Basic Flow

- Add Student – Underclassman
 - A user requests a new account with the system
 - The system prompts the user for required information:
 - First name
 - Last name
 - Email address
 - Desired password
 - Gender
 - Credit hours
 - CIS Concentration (if known)
 - Interests
 - User photo
 - The user submits the registration form
 - The system requests verification from system Admin role
 - Admin verifies the user as a Student – Underclassman
 - The system notifies the user that the account has been approved in an email to their provided email account, and provides a verification link
 - The user navigates back to the system via the verification link
 - The user provides their login credentials
 - The system validates the credentials and signs in the user
- Modify Student – Underclassman
 - A student user requests their account be updated to upperclassman after 30 credit hours have been earned
 - A system administrator reviews the request
 - Once verified, the system administrator updates the student account to Upperclassman
- Delete Student – Underclassman
 - A user requests their account be terminated
 - A system administrator reviews the request with the option to reach out to the student user for more information as needed
 - A system administrator deactivates the user account
 - The student user no longer has access to the site

3.1 Alternative Flows

3.1.1 User omits required account information

- The alternative flow begins at any time
- The user omits required information when registering account
- The system identifies to the user which field is required to continue the registration process
- The user provides the information
- The basic flow resumes

3.1.2 Cancel

- The alternative flow begins at any time
- The user elects to cancel registration

4. Special Requirements

A student user within the system is considered an underclassman if they have 30 or fewer credit hours in the University of Louisville system. The system administration will verify this information when authorizing the user account.

4.1 Verification of Student Status

5. Pre-conditions

5.1 A user initiates registration as a Student – Underclassman

6. Post-conditions

6.1 A user is granted access to the system with a Student – Underclassman account

7. Extension Points

7.1 None

Use Case Specification: Add User - Student, Upperclassman

1. Add Student – Upperclassman

1.2 Brief Description

A user that qualifies for an upperclassman account (More than 30 credit hours within the UofL system) will create an account. If and when necessary, the system administrators have authority to modify or delete the account. An Upperclassman user may elect to be available in the pool of mentors within the system.

2. Flow of Events

2.1 Basic Flow

- Add Student – Upperclassman
 - A user requests a new account with the system
 - The system prompts the user for required information:
 - First name
 - Last name
 - Email address
 - Desired password
 - Gender
 - Credit hours
 - CIS Concentration
 - Interests
 - User photo
 - The user submits the registration form
 - The system requests verification from system Admin role
 - Admin verifies the user as a Student – Upperclassman
 - The system notifies the user that the account has been approved in an email to their provided email account, and provides a verification link
 - The user navigates back to the system via the verification link
 - The user provides their login credentials
 - The system validates the credentials and signs in the user
- Modify Student – Upperclassman
 - A user requests the account be updated to Alumni to serve as a mentor once the student has successfully graduated
 - A system administrator reviews the request
 - Once verified, the system administrator updates the student account to Alumni
- Delete Student – Upperclassman
 - A user requests their account be terminated
 - A system administrator reviews the request with the option to reach out to the student user for more information as needed
 - A system administrator deactivates the user account
 - The student user no longer has access to the site

2.2 Alternative Flows

2.2.1 User omits required account information

- The alternative flow begins at any time
- The user omits required information when registering account
- The system identifies to the user which field is required to continue the registration process
- The user provides the information
- The basic flow resumes

2.2.2 Cancel

- The alternative flow begins at any time
- The user elects to cancel registration

3. Special Requirements

A student user within the system is considered an upperclassman if they have more than 30 credit hours in the University of Louisville system. The system administration will verify this information when authorizing the user account.

3.1 Verification of Student Status

4. Pre-conditions

4.1 A user initiates registration as a Student – Upperclassman

5. Post-conditions

5.1 A user is granted access to the system with a Student – Upperclassman account

6. Extension Points

6.1 None

Use Case Specification: Add User - Alumni

1. Add Alumni

1.2 Brief Description

A user that qualifies for an alumni account will be either a graduate of UofL that will continue in the Branches system serving as a mentor, or a member of the professional tech community in Louisville that wishes to serve as a mentor within the system. Active alumni accounts will automatically be included in the pool of potential mentors. If and when necessary, the system administrators have authority to modify or delete the account.

2. Flow of Events

2.1 Basic Flow

- Add Alumni
 - A user requests a new account with the system
 - The system prompts the user for required information:
 - First name
 - Last name
 - Email address
 - Desired password
 - Gender
 - Professional title
 - Employer
 - Interests
 - User photo
 - The user submits the registration form
 - The system requests verification from system Admin role
 - Admin verifies the user as an Alumni
 - The system notifies the user that the account has been approved in an email to their provided email account, and provides a verification link
 - The user navigates back to the system via the verification link
 - The user provides their login credentials
 - The system validates the credentials and signs in the user
- Modify Alumni
 - System administration modifies access to Alumni account
- Delete Alumni
 - A user requests their account be terminated
 - A system administrator reviews the request with the option to reach out to the student user for more information as needed
 - A system administrator deactivates the user account
 - The user no longer has access to the site

2.2 Alternative Flows

2.2.1 User omits required account information

- The alternative flow begins at any time
- The user omits required information when registering account
- The system identifies to the user which field is required to continue the registration process
- The user provides the information
- The basic flow resumes

2.2.2 Cancel

- The alternative flow begins at any time
- The user elects to cancel registration

3. Special Requirements

An alumni user role may be a former student of UofL or a member of the professional tech community. The user must be reviewed by system admin, with the option for admin to reach out to the potential user for clarified information before approving the account to use the system.

3.1 Verification of Alumni Status

4. Pre-conditions

4.1 A user wants to register as an Alumni

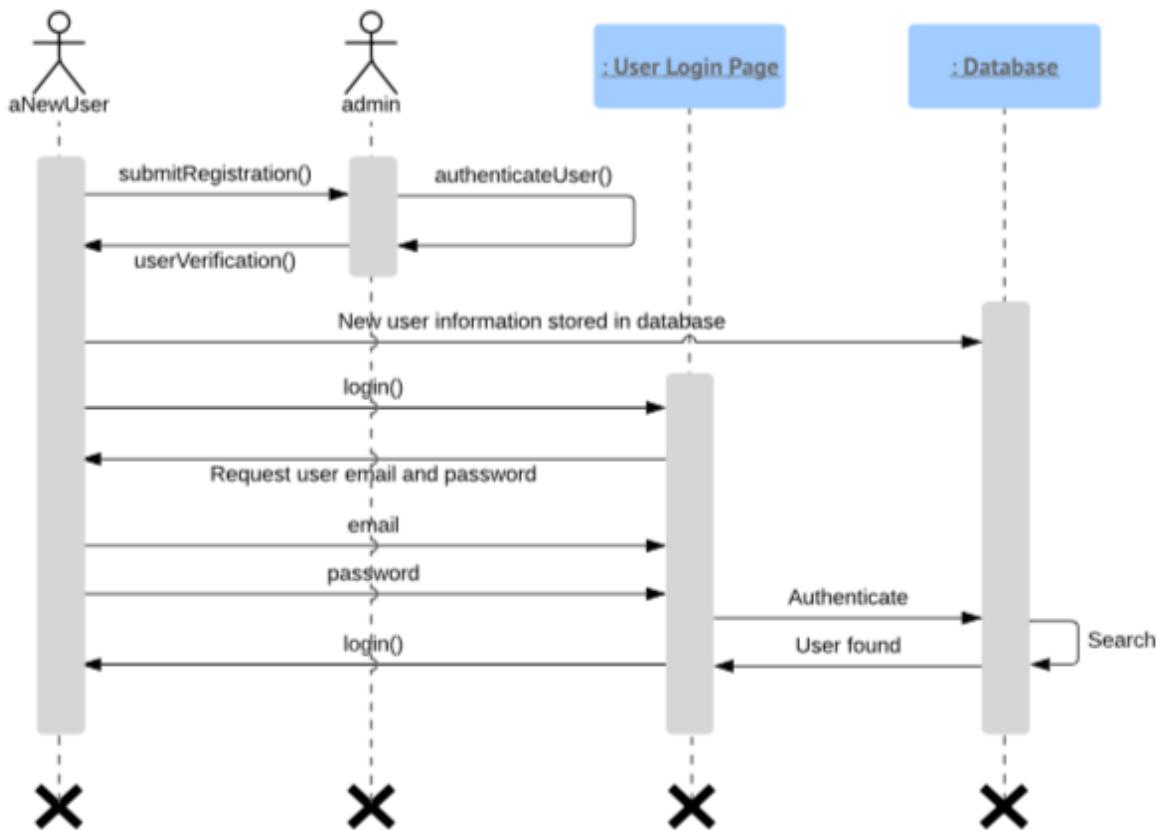
5. Post-conditions

5.1 A user is granted access to the system with an Alumni account

6. Extension Points

6.1 None

User Registration Sequence Diagram



Use Case Specification: User Login

1. Login

1.2 Brief Description

A user can log into their profile by accessing the login page. By providing their email address and password, a user will be granted access to the system.

2. Flow of Events

2.1 Basic Flow

- Student login - Underclassman
 - A user will access the Login page of the system
 - A user will provide email address
 - A user will provide their password
 - A user will be granted access to the system
- Student login - Upperclassman
 - A user will access the Login page of the system
 - A user will provide email address
 - A user will provide their password
 - A user will be granted access to the system
- Alumni login
 - A user will access the Login page of the system
 - A user will provide email address
 - A user will provide their password
 - A user will be granted access to the system
- Administrator
 - A user will access the Login page of the system
 - A user will provide email address
 - A user will provide their password
 - A user will be granted access to the system

2.2 Alternative Flows

2.2.1 Invalid Email Address

- The alternative flow begins after step 2 of the main flow
- The system informs the user that an invalid email address has been entered
- The system prompts the user to attempt another login

2.2.2 Invalid Password

- The alternative flow begins after step 3 of the main flow
- The system informs the user that an invalid password has been entered
- The system prompts the user to attempt another login

2.2.3 Forgotten Password

- The alternative flow begins after step 3 of the main flow
- The user has forgotten their password
- The user clicks the link provided
- The user is redirected to a new page in order to recover their login credentials

2.2.4 Cancel

- The alternative flow begins at any point in the main flow
- The user leaves the login page without providing information or attempting successful login

3. Special Requirements

3.1 User must have a verified account within the system in order to successfully log in

4. Pre-conditions

4.1 A user accesses the Login page of the system

4.2 A user provides valid login credentials

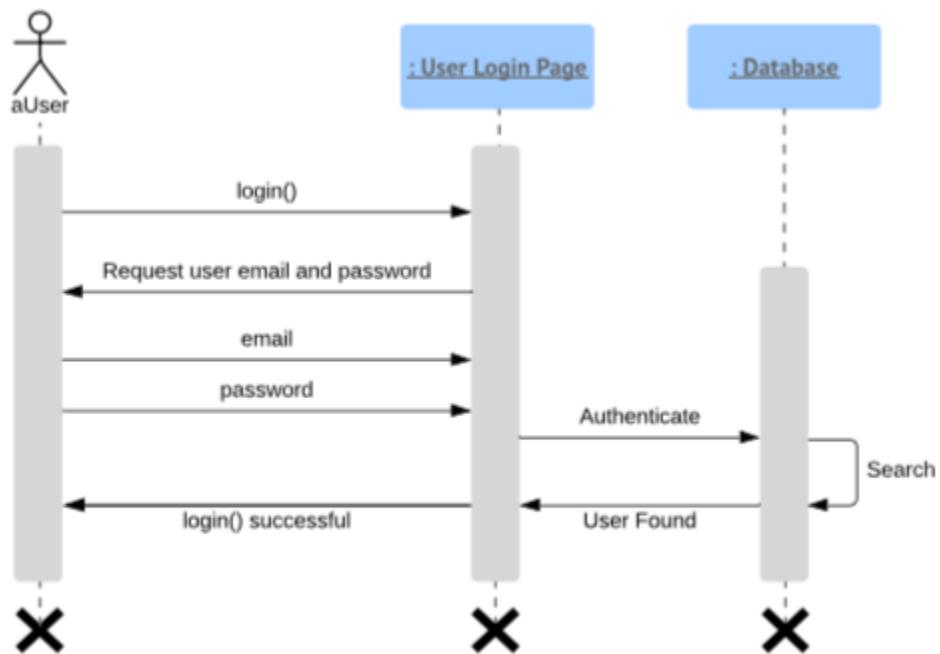
5. Post-conditions

5.1 A user is granted access to the system

6. Extension Points

6.1 None

User Login Sequence Diagram



Use Case Specification: Add User Interests

1. Interests

1.1 Brief Description

Interests listed on a user profile serve as part of the data used to determine appropriate mentor-mentee matches. The information about which interests are relevant to a user is provided by the user and presented on their profile to be viewed by other users within the system.

2. Flow of Events

2.1 Basic Flow

- Add interest
 - A user will log into the system
 - A user will access their personal profile information
 - A user will search for an item relevant to their interests to their profile
 - A user will add the relevant interest to their profile
- Modify/delete interest
 - A user will have the ability to remove an interest from their profile as necessary
 - A user will select the interest to be removed from their profile
 - The interest will be removed from the user profile

2.2 Alternative Flows

2.2.1 None

3. Special Requirements

Interest from other accounts may be stored in the DBMS and used to suggest interest other users may add to their profiles.

3.1 Interest Data Storage

4. Pre-conditions

- 4.1 A user is logged into their account**
- 4.2 A user selects an interest to add to their profile**

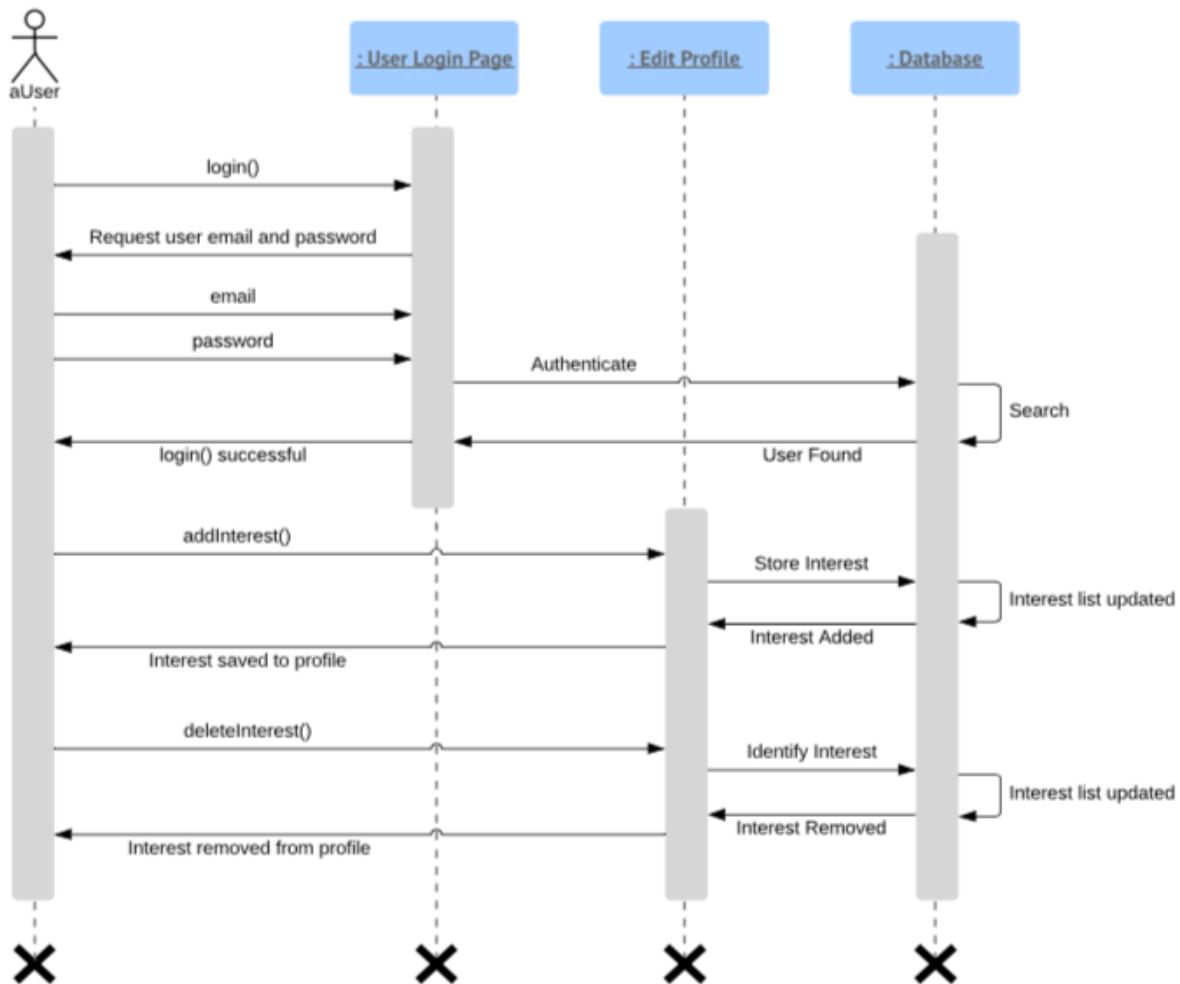
5. Post-conditions

- 5.1 A user profile is updated with the additional interest**

6. Extension Points

6.1 None

Add Interest Sequence Diagram



Use Case Specification: Add Specialization

1. Add Specialization

1.1 Brief Description

This use case refers to the selection of a major specialization by a CIS student, whether upperclassman or underclassman. The specialization areas are Business Process Management, Information Security, and Web Development. By selecting one (or more) of the specialization areas, the system will match students to a mentor with a similar specialization or career.

2. Flow of Events

2.1 Basic Flow

- The student will select 'choose specialization' while setting up profile.
- The system will prompt the student to choose one of the specializations from a drop down menu.
- The student will select a specialization from the drop-down menu.
- The student will select 'save'.
- The system will record the specialization in the database.
- The system will display the specialization on the user's profile.

2.2 Alternative Flows

None

3. Special Requirements

- 3.1 The student should be allowed to select multiple specializations.

4. Pre-conditions

- 4.1 The user that enters a specialization must be a student in the CIS department- whether upperclassman or underclassman.

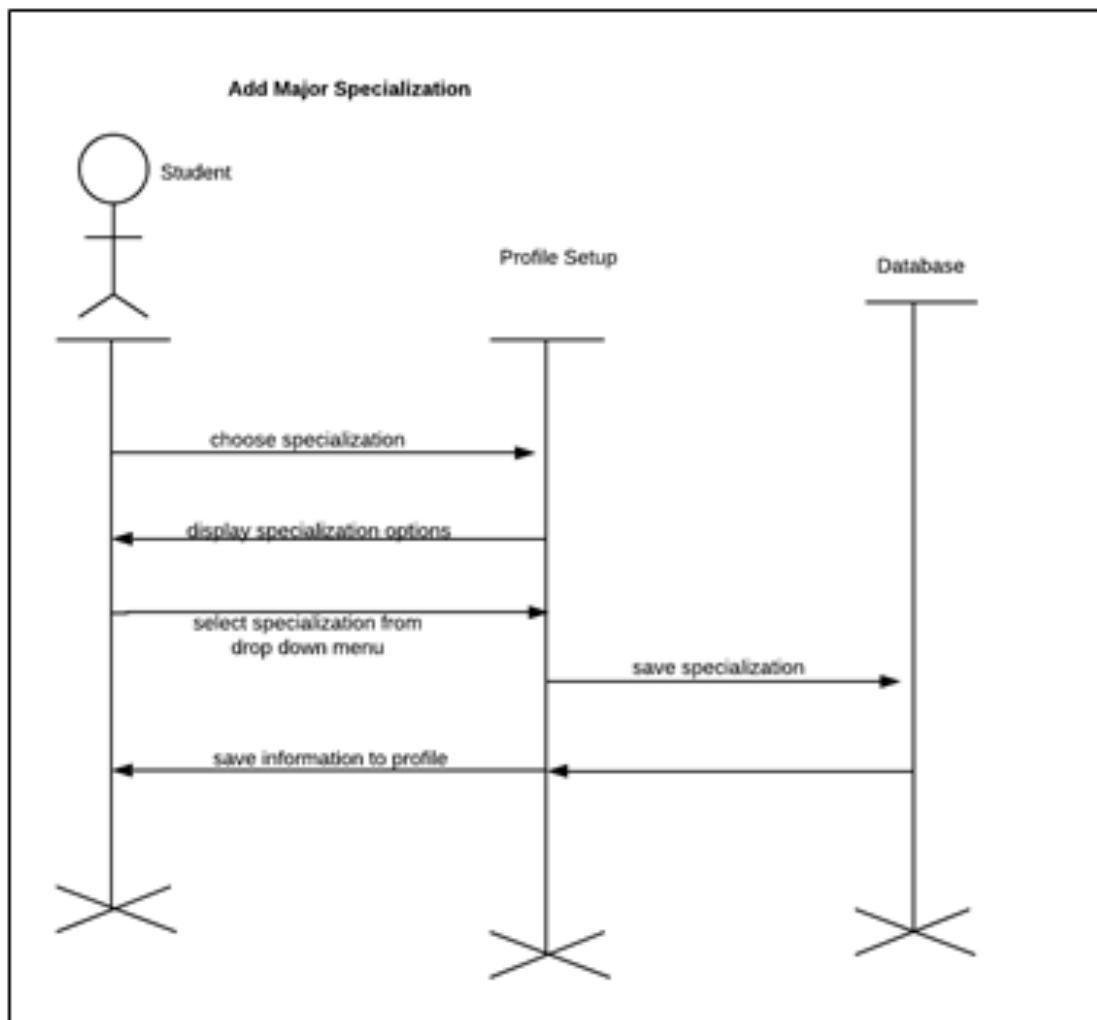
5. Post-conditions

- 5.1 The system will display the entered specialization on the student's profile.
- 5.2 The algorithm will use the information to match the student to a mentor.

6. Extension Points

- 6.2 None

Add Major Specialization Sequence Diagram



Use Case Specification: Modify Specialization

1. Modify Specialization

1.1 Brief Description

This use case refers to editing a previously input information on specializations. This can be useful if a student decides to change their specialization, or add an additional specialization. The information can be edited from the profile page of the system, and changes should be approved by managers and considered when searching for a new mentor.

2. Flow of Events

2.1 Basic Flow

- The student selects 'account settings'.
- The settings list is displayed.
- The student selects 'edit profile'.
- The student selects 'edit specialization'.
- The student chooses a new specialization/adds a new specialization.
- The system saves the new specialization to the database.
- The system displays the specialization(s) on the user profile.

2.2 Alternative Flows

None

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must be a student, whether upper or underclassman.
- 4.2 The user must have previously entered a specialization in order to edit it.

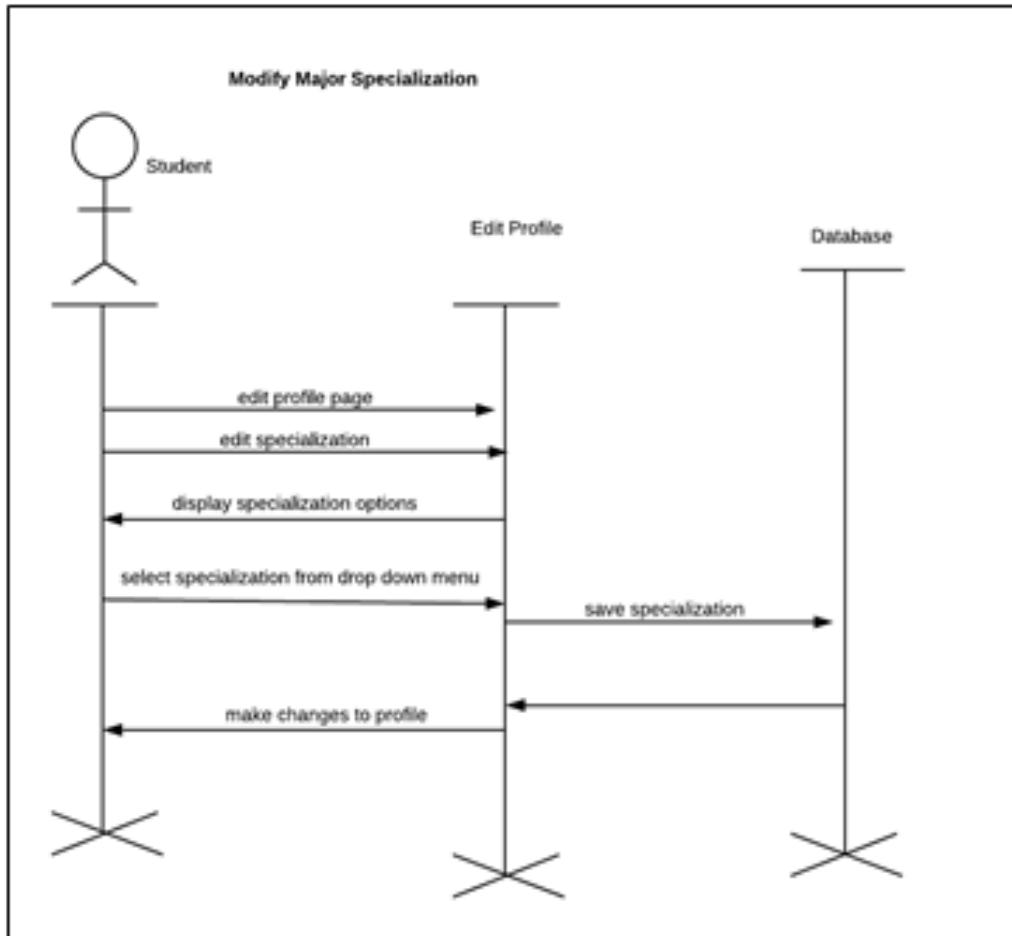
5. Post-conditions

- 5.1 A new specialization will be entered into the database and displayed on the profile.

6. Extension Points

- 6.1 None

Modify Major Specialization Sequence Diagram



Use Case Specification: Add Career

1. Add Career

1.2 Brief Description

This use case refers to alumni adding their career to their profile. The addition of a career and place of work will allow the system to better match and suggest mentee matches.

2. Flow of Events

2.1 Basic Flow

- The alumni will enter a career title
- The system will prompt the alumni to enter a company
- The alumni will enter the company they work for
- The alumni will select 'next' button
- The system will store the career information in the database.
- The career and place of employment will be displayed on the user's profile

2.2 Alternative Flows

None

3. Special Requirements

- 3.1 The user must be an alumni to add a career.

4. Pre-conditions

- 4.1 The user must be an alumni to enter a career.

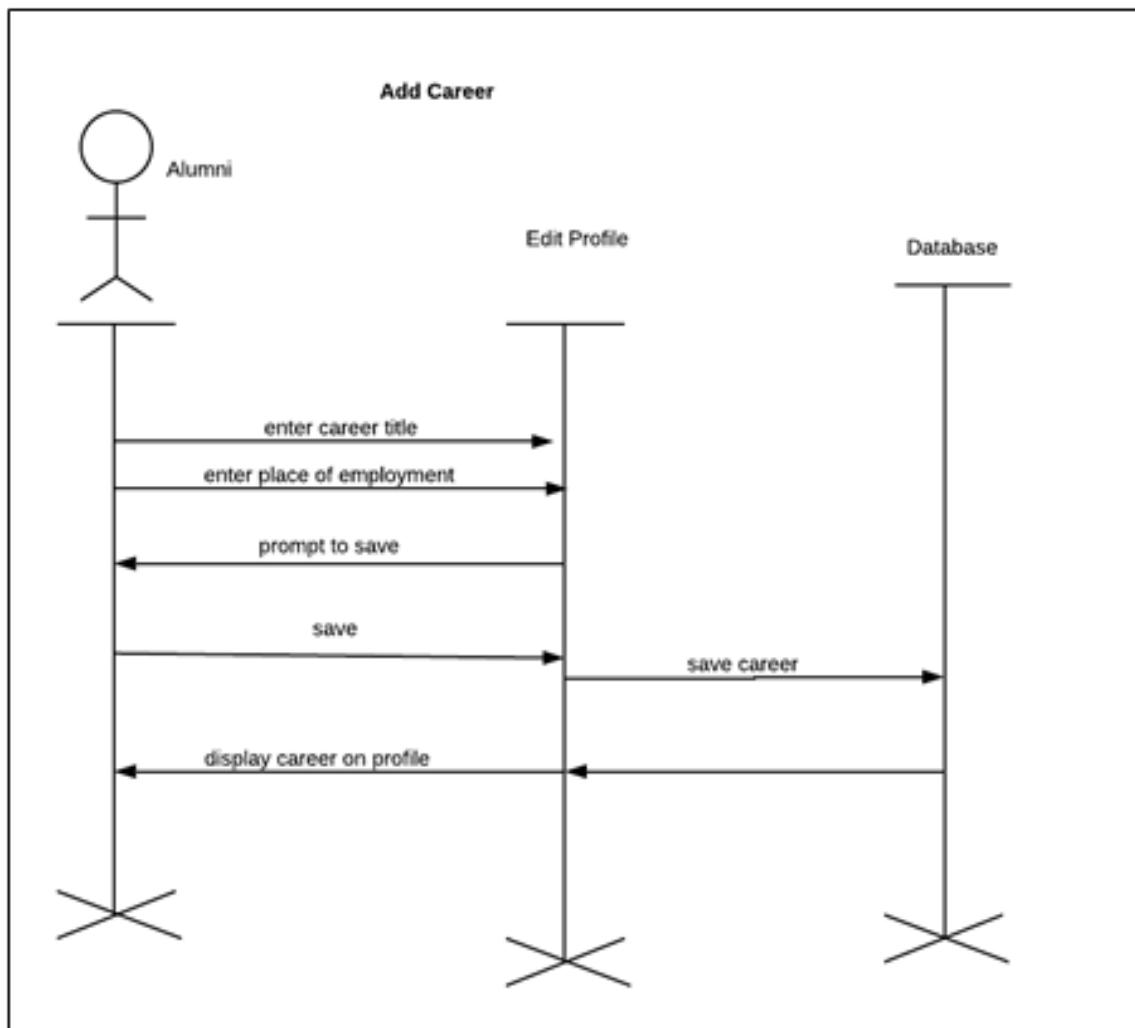
5. Post-conditions

- 5.1 A career will be entered into the database and displayed on the profile for the user.

6. Extension Points

- 6.1 None

Add Career Sequence Diagram



Use Case Specification: Modify Career

1. Modify Career

1.1 Brief Description

This use case is for the alumni who have previously entered careers and have since changed careers or place of work.

2. Flow of Events

2.1 Basic Flow

- The alumni will select 'account settings'
- The alumni will select 'edit profile'
- The alumni will select 'edit career'
- The alumni will change current career if needed
- The alumni will change current company if needed
- The alumni will select 'save'
- The new career will be saved in the database
- The new career will be added to the user's profile

2.2 Alternative Flows

None

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must be an alumnus of the CIS department at the University of Louisville.

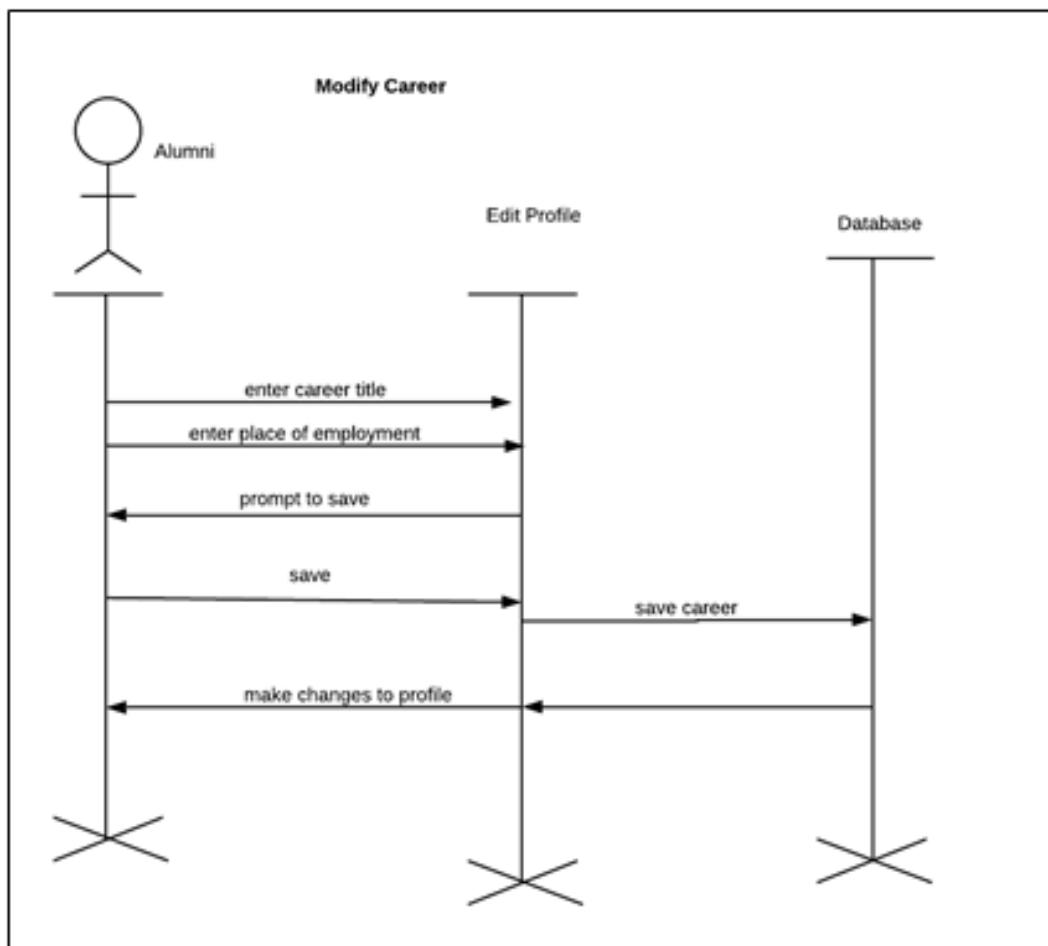
5. Post-conditions

- 5.1 A new career will be displayed for the user

6. Extension Points

None

Modify Career Sequence Diagram



Use Case Specification: Add Profile Picture

1. Add Profile Picture

1.1 Brief Description

This use case refers to the users of the program adding an identifying image to their profile. This can be done in a few simple steps and will allow the mentors and mentees to more easily identify one another.

2. Flow of Events

2.1 Basic Flow

- The user will select 'browse files'
- The user will select the photo they want to add as their profile picture.
- The user will press 'upload'.
- The system will upload the picture.
- The system will add the student's picture to the database.
- The system will display the student's picture on the profile.

2.2 Alternative Flows

None

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user should have a photo to add on their computer.
- 4.2 The user should already have an account or be registering for one.

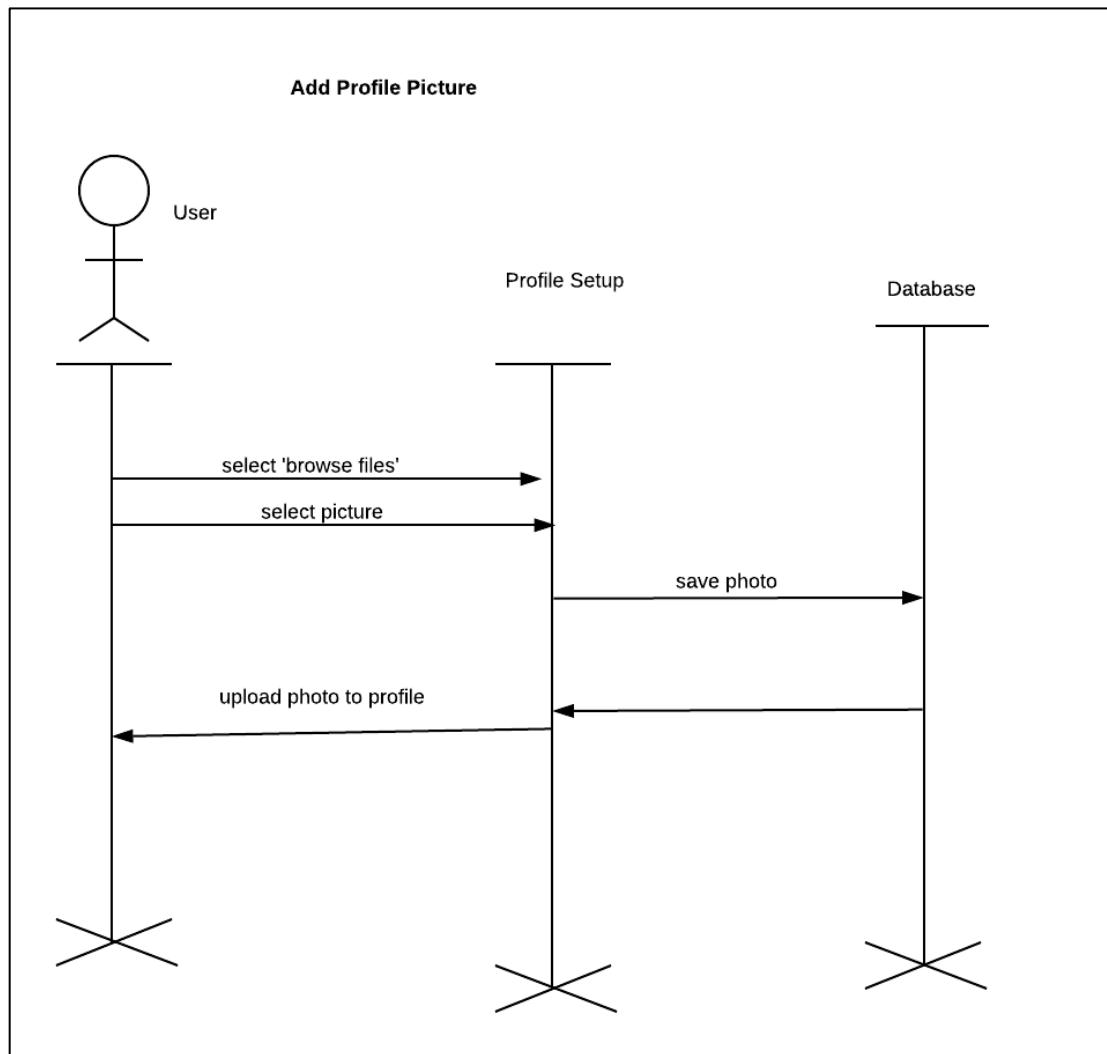
5. Post-conditions

- 5.1 A new profile picture will be displayed for the user

6. Extension Points

None

Add Profile Picture Sequence Diagram



Use Case Specification: Modify Profile Picture

1. Modify Profile Picture

1.1 Brief Description

This use case refers to allowing the users to edit their profile picture if desired. This is a simple process and can allow users to update their profile if desired.

2. Flow of Events

2.1 Basic Flow

- The user will select ‘account settings’.
- The user will select ‘edit profile’.
- The user will select ‘edit profile picture’.
- The user will select ‘browse files’.
- The user will select the photo they want to add as their profile picture.
- The user will press ‘upload’.
- The system will upload the new picture.
- The system will add the student’s new photo to the database.
- The system will display the student’s new picture on the profile.

2.2 Alternative Flows

None

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must have previously added a profile picture in order to modify it.

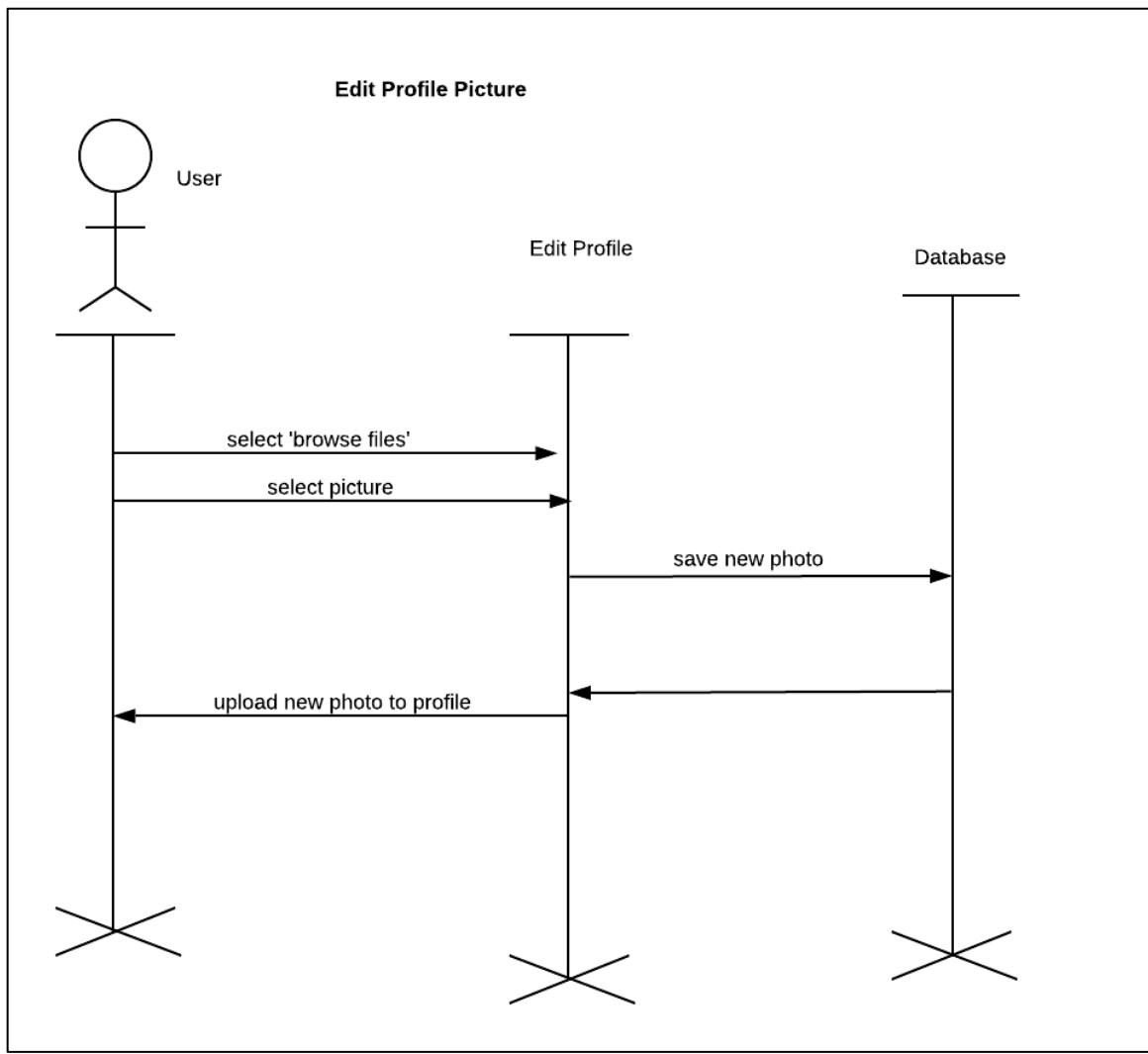
5. Post-conditions

- 5.1 A new profile picture will be displayed for the user.

6. Extension Points

None

Modify Profile Picture Sequence Diagram



Use Case Specification: Delete Profile Picture

1. Modify Specialization

1.1 Brief Description

This use case will allow the user to delete their profile picture if desired.

2. Flow of Events

2.1 Basic Flow

- The user will select 'account settings'.
- The user will select 'edit profile'.
- The user will select 'edit profile picture'.
- The user will select 'delete profile picture.'
- The system will prompt the user, "Are you sure you want to delete?"
- The user will select 'yes'.
- The system will delete the profile picture from the database.
- The system will delete the profile picture from the user's profile.

2.2 Alternative Flows

None

3. Special Requirements

None

4. Pre-conditions

4.1 The user must have a current profile picture in order to delete one

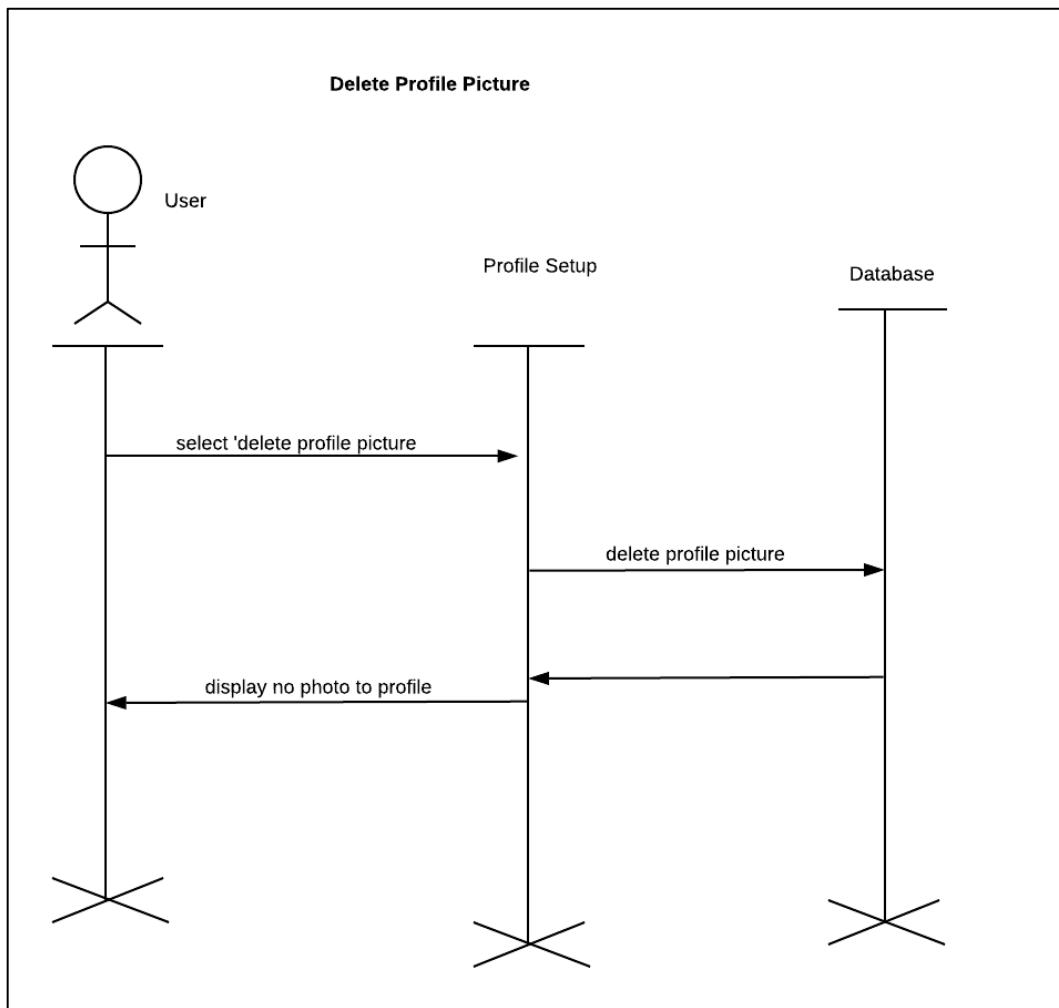
5. Post-conditions

5.1 The user will have no profile picture displayed

6. Extension Points

None

Delete Profile Picture Sequence Diagram



Use Case Specification: Add biography

1. Add Biography

1.1 Brief Description

This use case will allow the user to add a biography to their profile. This will be a short paragraph that will tell all those who read the user's profile to learn more about them and their skills as related to CIS. This will especially benefit the mentee/mentor of the user before they choose/meet their mentor.

2. Flow of Events

2.1 Basic Flow

- The user will enter a biography into a textbox.
- The user will press enter.
- The system will save the user's bio to the database
- The system will save the user's bio to their profile.

2.2 Alternative Flows

- The user can choose not to add a biography
- In this case they would just be prompted to the next step
- The bio spot would be left blank

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must be setting up a profile or already have a profile to add a bio.

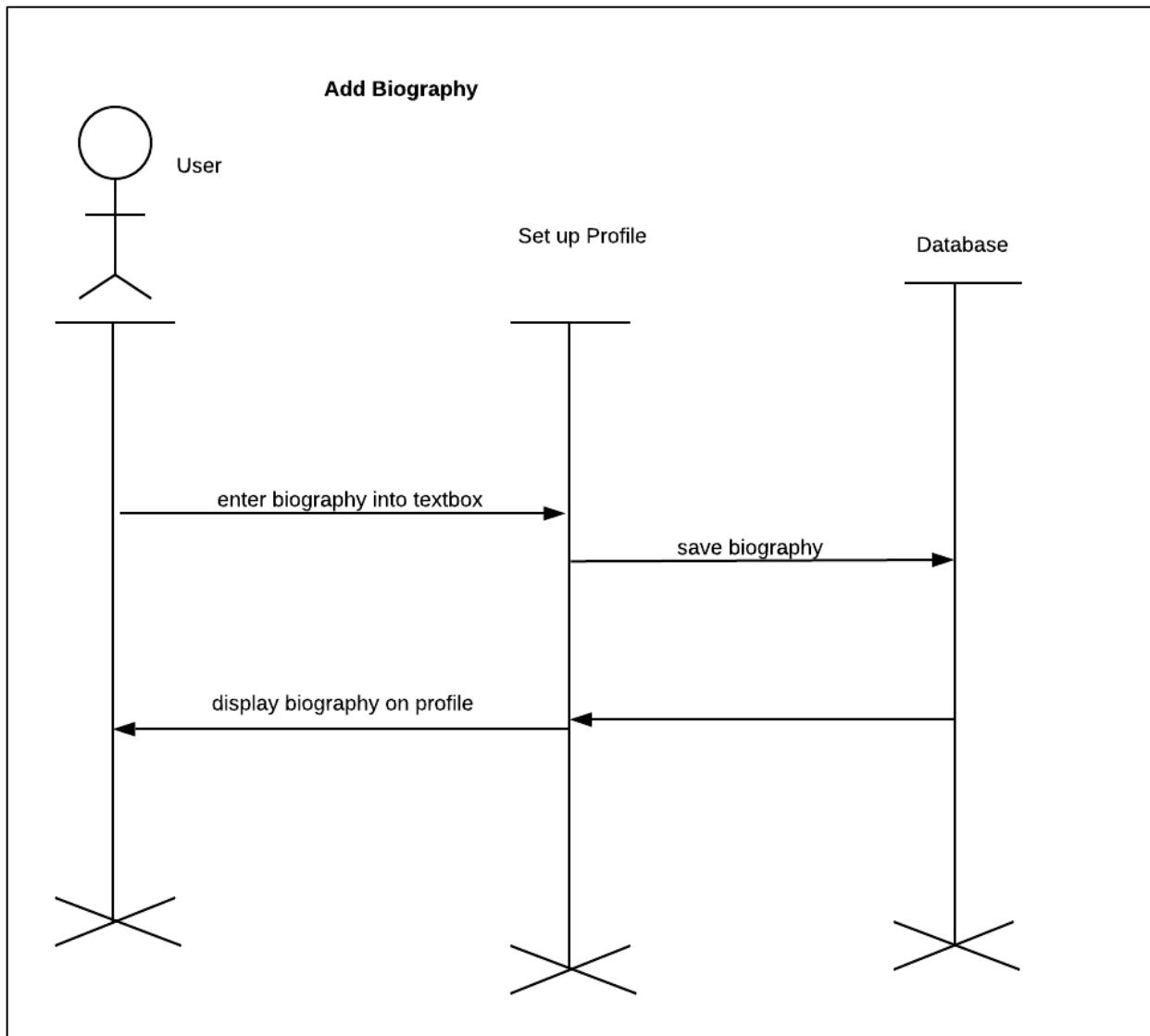
5. Post-conditions

- 5.1 The user's biography will be displayed

6. Extension Points

None

Add Biography Sequence Diagram



Use Case Specification: Modify Biography

1. Modify Biography

1.1 Brief Description

This use case will allow the user to edit their biography should they want to add any additional information, skills, or updated accomplishments that they want potential mentors/mentees to know about.

2. Flow of Events

2.1 Basic Flow

- The user will select 'account settings'.
- The user will select 'edit profile'.
- The user will select 'edit bio'
- The user will edit their previously entered bio.
- The user will select 'enter'
- The system will store the new bio in the database.
- The system will display the new bio in the profile.

2.2 Alternative Flows

None

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must have a current biography in order to modify one.

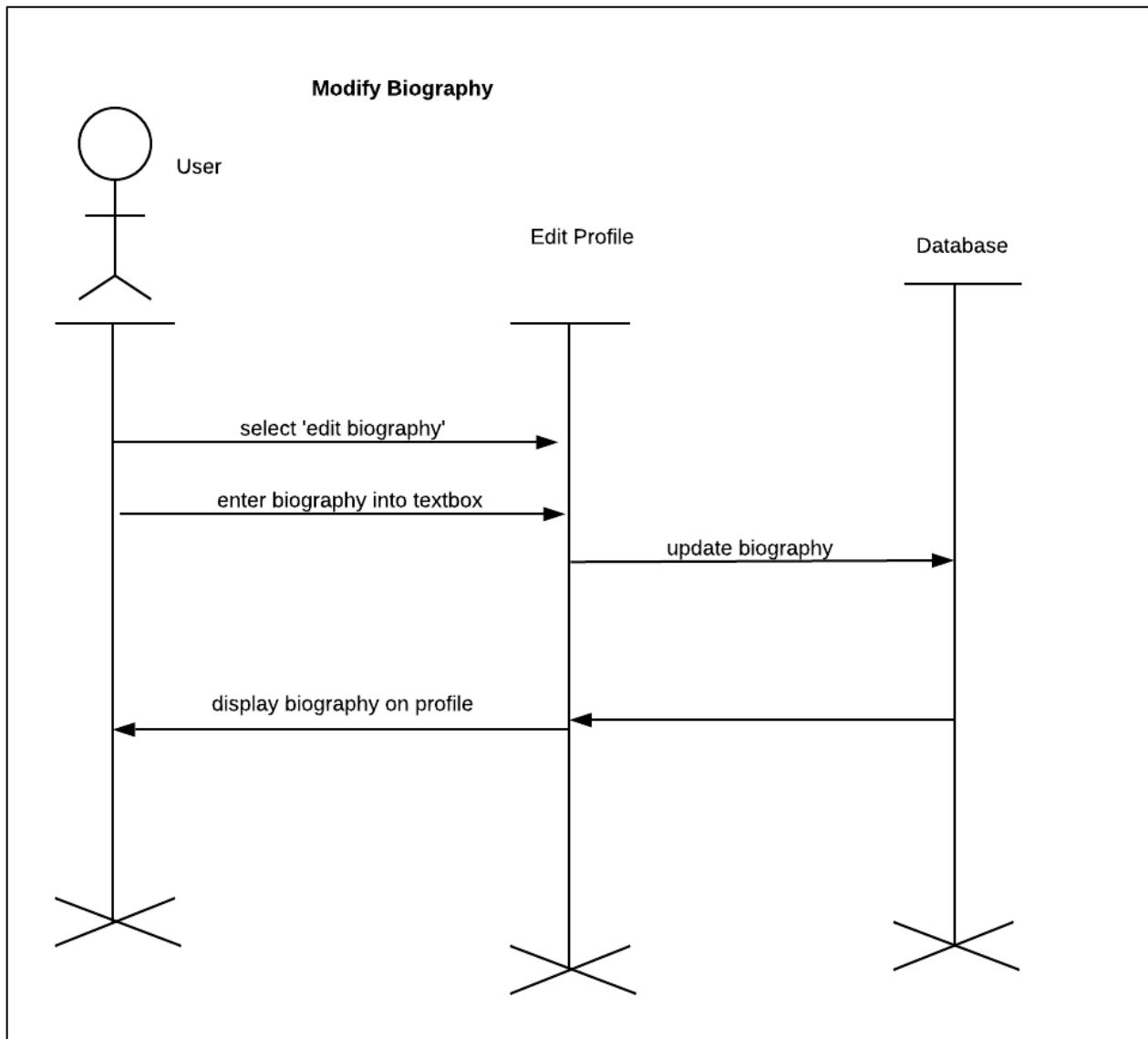
5. Post-conditions

- 5.1 The user will have an updated biography displayed.

6. Extension Points

None

Modify Biography Sequence Diagram



Use Case Specification: Add Mentor Matches

1. Add Mentor Matches

1.1 Brief Description

This use case is related to the mentor (underclassmen or upperclassmen) searching for their mentor. The mentoring system will use an algorithm that will suggest mentors upperclassmen or alumni to choose from. This system allows mentees to choose the best possible mentee for themselves and their growth within the program.

2. Flow of Events

2.1 Basic Flow

- The mentee will open the 'find mentor section' of their profile.
- The system will suggest mentor matches based on the user's profile
- The upperclassmen mentor matches will display to the underclassmen
- The alumni mentor matches will display to the upperclassmen.
- The users will select a mentor
- The system will send a notification to the selected mentor.
- The mentor will accept the mentee.

2.2 Alternative Flows

- The mentor denies the mentee
- The system alerts the mentee that they have been denied
- The system deletes potential match from database

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must have entered information that can be used by the algorithm to match a mentor to mentee.

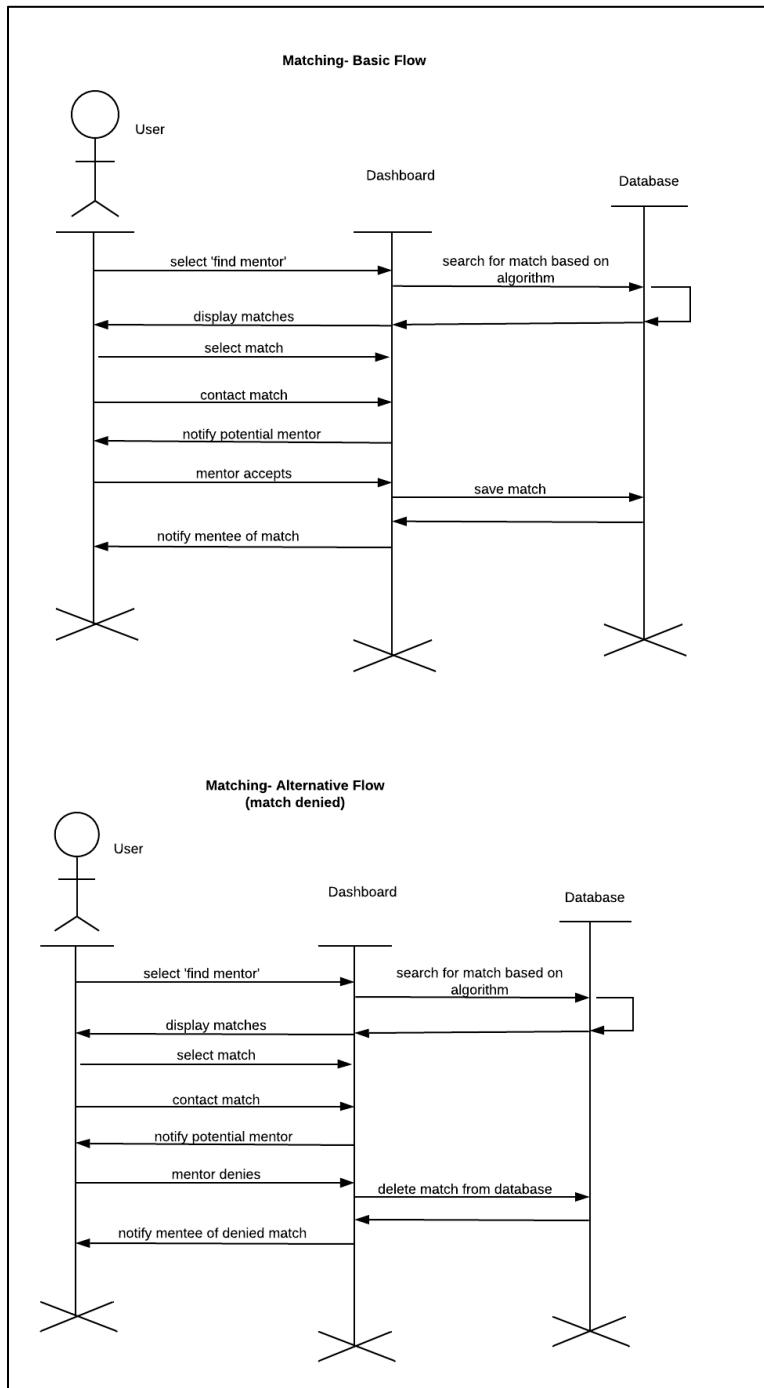
5. Post-conditions

- 5.1 The mentor and mentee will be matched.

6. Extension Points

None

Mentor Matching Sequence Diagram



Use Case Specification: Add goals

1. Add Goals

1.1 Brief Description

This use case allows the users to add goals that they wish to complete with their mentor/mentee. These goals can then be checked off by the mentor and mentee, or they can work on the goals together.

2. Flow of Events

2.1 Basic Flow

- The user will choose from a list of goals or enter their own goals
- The user will add a goal due date
- The system will record the user's goal in the database
- The system will display the users goals for their mentor/mentee to see

2.2 Alternative Flows

- The users can choose not to add goals
- The system will just take them to the next step.

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must be enrolled in the program to add goals.

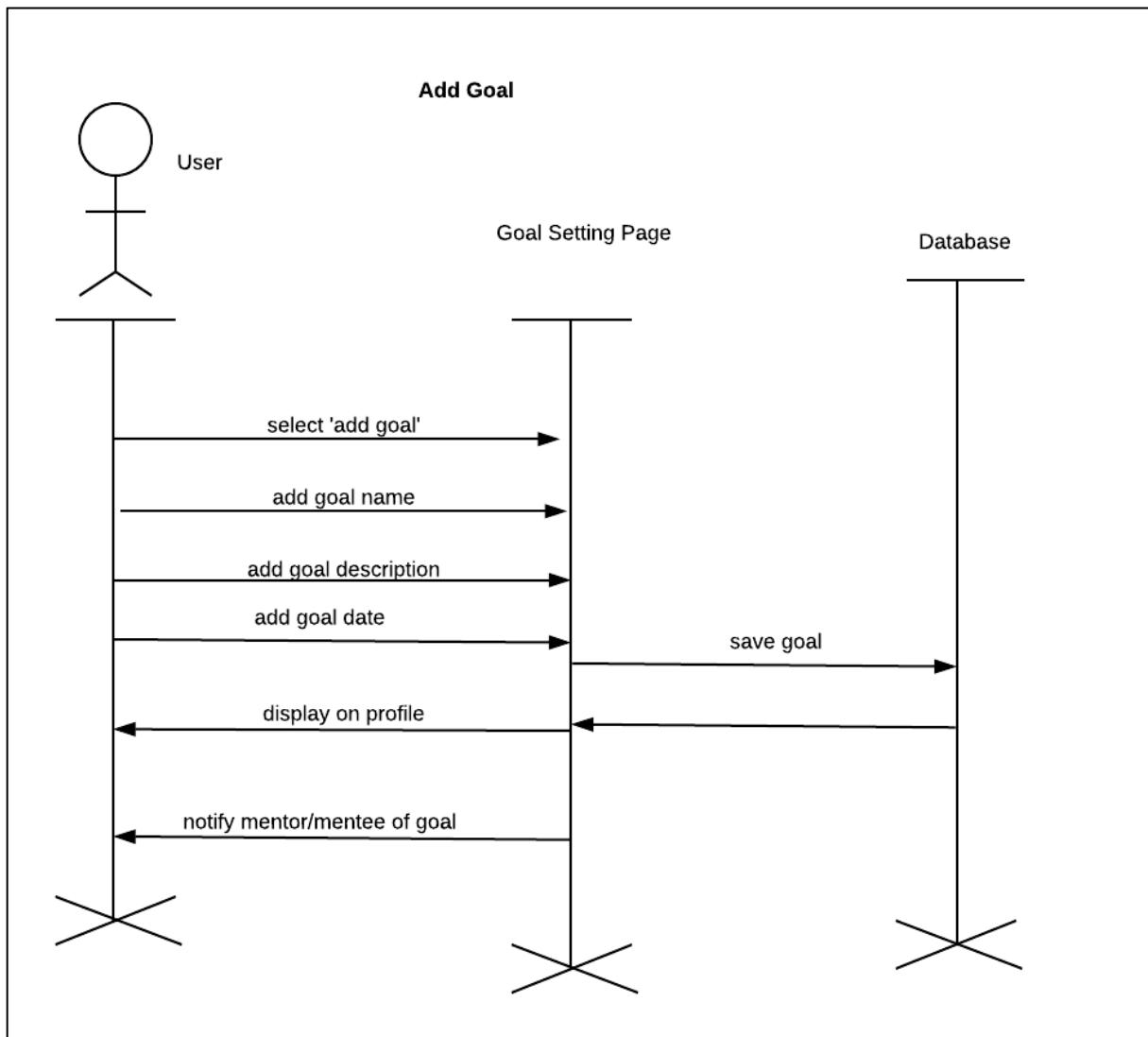
5. Post-conditions

- 5.1 The user will have goals displayed on their profile.

6. Extension Points

None

Add Goal Sequence Diagram



Use Case Specification: Modify Goals

1. Modify Goals

1.1 Brief Description

This use case will allow the user to modify their goals. This is beneficial if they have completed goals with their mentor/ mentee or if their goals are no longer relevant.

2. Flow of Events

2.1 Basic Flow

- The user will select 'modify goals'.
- The user will edit their goals.
- The system will record the user's new goals.
- The system will notify mentor/mentee about the new goals.

2.2 Alternative Flows

None

3. Special Requirements

None

4. Pre-conditions

- 4.1 The user must have previous goals in order to modify their goals.

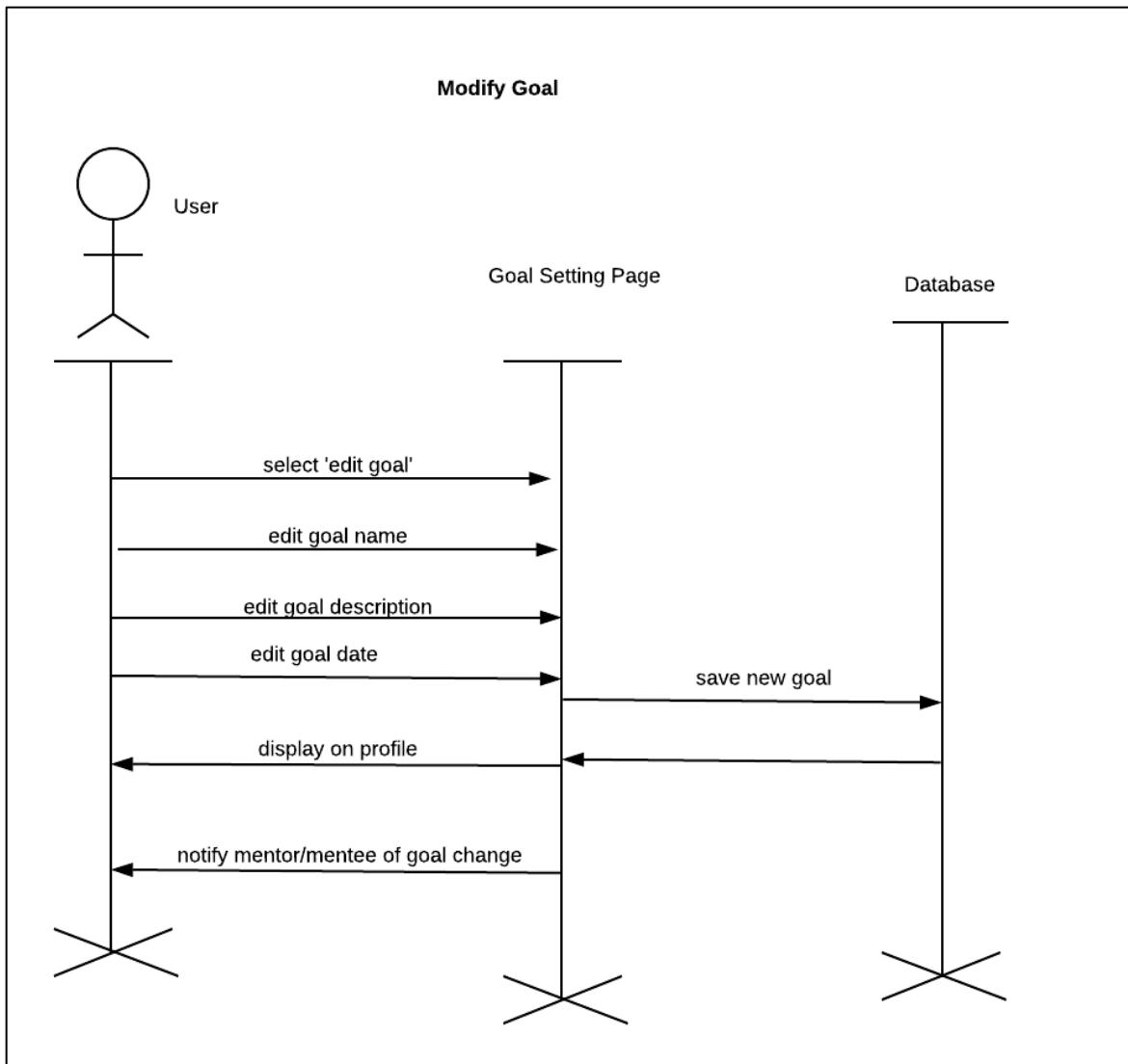
5. Post-conditions

- 5.1 The user will have updated goals displayed.

6. Extension Points

None

Modify Goal Sequence Diagram



Use Case Specification: Add Message to Peer

1. Use-Case Name

1.1 Brief Description

Students will have the ability to send messages to each other, upper and underclassmen can communicate and organize meet-ups/study sessions, or just converse. All messages will be documented, and there will be an option to report abuse in the chat.

2. Flow of Events

2.1 Basic Flow

- Student navigates to Peer's profile
- Student selects "Send Message" link
- Student composes message in form
- Student selects "Send" button

2.2 Alternative Flows

Report Abuse

- Student right-clicks abusive message
- Student selects "Report Abuse" from pop-up window
- Student makes additional comments if necessary
- Admin receives flagged message detailing report.

Message from Newsfeed

- Student selects "Send Direct Message" from Peer's newsfeed post
- Student composes message in form
- Student selects "Send" button

Replying

- Student views all messages with peer in pop-up window
- Student composes message in text box on form
- Student selects "Send" button
- Messages are updated

3. Special Requirements

3.1 Message Storage

- All messages will need to be stored and date/time stamped in order to have them on hand to view if necessary.

3.2 Abusive Message

- In the case of an abusive message, the message in question will need to be flagged and the abuse report should be connected to said message.

4. Pre-conditions

4.1 Student must be logged-in

5. Post-conditions

5.1 Messages are date/time stamped

5.2 Messages are updated in window for student to view

5.3 Student receiving is notified of a new message

Use Case Specification: Add Message to Mentor

1. Use-Case Name

1.1 Brief Description

Students will have the ability to send messages to the mentor they have matched with, as well as other potential mentor matches. This gives the student an opportunity to communicate with and get to know their potential mentor, as well as plan meet-ups/activities. All messages will be documented, and there will be an option to report abuse in the chat.

2. Flow of Events

2.1 Basic Flow

- Student navigates to mentor's profile
- Student selects "Send Message" link
- Student composes message in form
- Student selects "Send" button

2.2 Alternative Flows

Report Abuse (Student)

- Student right-clicks abusive message
- Student selects "Report Abuse" from pop-up window
- Student makes additional comments if necessary
- Admin receives flagged message detailing report

Report Abuse (Mentor)

- Mentor right-clicks abusive message
- Mentor selects "Report Abuse" from pop-up window
- Mentor makes additional comments if necessary
- Admin receives flagged message detailing report

Message from Newsfeed

- Student selects "Send Direct Message" from mentor's newsfeed post
- Student composes message in form
- Student selects "Send" button

Replying

- Student views all messages with Mentor in pop-up window
- Student composes message in text box on pop-up window
- Student selects "Send" button
- Messages are updated

3. Special Requirements

3.1 Message Storage

- All messages will need to be stored and date/time stamped in order to have them on hand to view if necessary.

3.2 Abusive Message

- In the case of an abusive message, the message in question will need to be flagged and the abuse report should be connected to said message.

4. Pre-conditions

4.1 User must be logged-in

5. Post-conditions

5.1 Messages are date/time stamped

5.2 Messages are updated in window for student to view

5.3 User receives New Message notification

Use Case Specification: Add Message to Admin

1. Use-Case Name

1.1 Brief Description

Users will have the ability to send messages to the System Administrator. All messages will be documented, and there will be an option to report abuse in the chat.

2. Flow of Events

2.1 Basic Flow

- User navigates to Admin's profile
- User selects "Send Message" link
- User composes message in form
- User selects "Send" button

2.2 Alternative Flows

Replies

- User views all messages with Admin in pop-up window
- User composes message in text box on form
- User selects "Send" button
- Messages are updated

3. Special Requirements

3.1 Message Storage

- All messages will need to be stored and date/time stamped in order to have them on hand to view if necessary.

3.2 Abusive Message

- In the case of an abusive message, the message in question will need to be reported to the Dean of Students office, or another appropriate party.

4. Pre-conditions

4.1 User must be logged-in

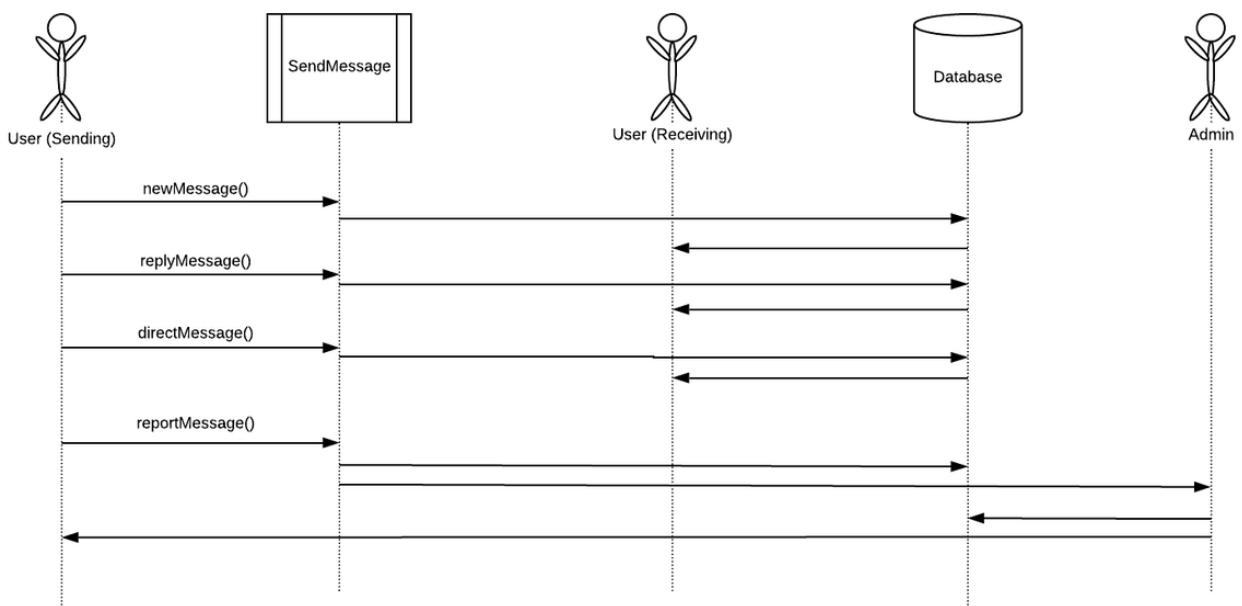
5. Post-conditions

5.1 Messages are date/time stamped

5.2 Messages are updated in window for User to view

5.3 Admin receiving is notified of a new message

Message Sequence Diagram



Use Case Specification: Add Post to Newsfeed

1. Use-Case Name

1.1 Brief Description

Users will have the ability to create a message that will be shared with all branches users, with the ability to attach links, images, and video files to these posts. This is intended to allow mentors to share public meet-ups or industry related articles, and gives students the ability to organize study sessions and make connections.

2. Flow of Events

2.1 Basic Flow

- User selects “Add Post to Newsfeed” from dashboard
- User composes post in form
- User selects “Post” button

2.2 Alternative Flows

Report Abuse

- User right-clicks abusive post
- User selects “Report Abuse” from pop-up window
- User makes additional comments if necessary
- Admin receives flagged message detailing report

Attach an Image

- User selects “Add Post to Newsfeed” from dashboard
- User selects “Attachment” link in form
- User selects “Image” from drop-down menu
- User selects compatible image from their device to upload
- User composes post in form
- User selects “Post” button

Attach an Video

- User selects “Add Post to Newsfeed” from dashboard
- User selects “Attachment” link in form
- User selects “Video” from drop-down menu
- User selects compatible video from their device to upload
- User composes post in form
- User selects “Post” button

Add a Link

- User selects “Add Post to Newsfeed” from dashboard
- User selects “Attachment” link in form
- User selects “Link” from drop-down menu
- User enters link in text box on form
- User composes post in form
- User selects “Post” button

3. Special Requirements

3.1 Post Storage

- Each post will be date/time stamped and stored, as will each iteration of the post/comments.

3.2 Abusive Post

- In the case of a post that violates the terms and conditions of the site, the post in question will need to be flagged and the abuse report will be attached to said post.

4. Pre-conditions

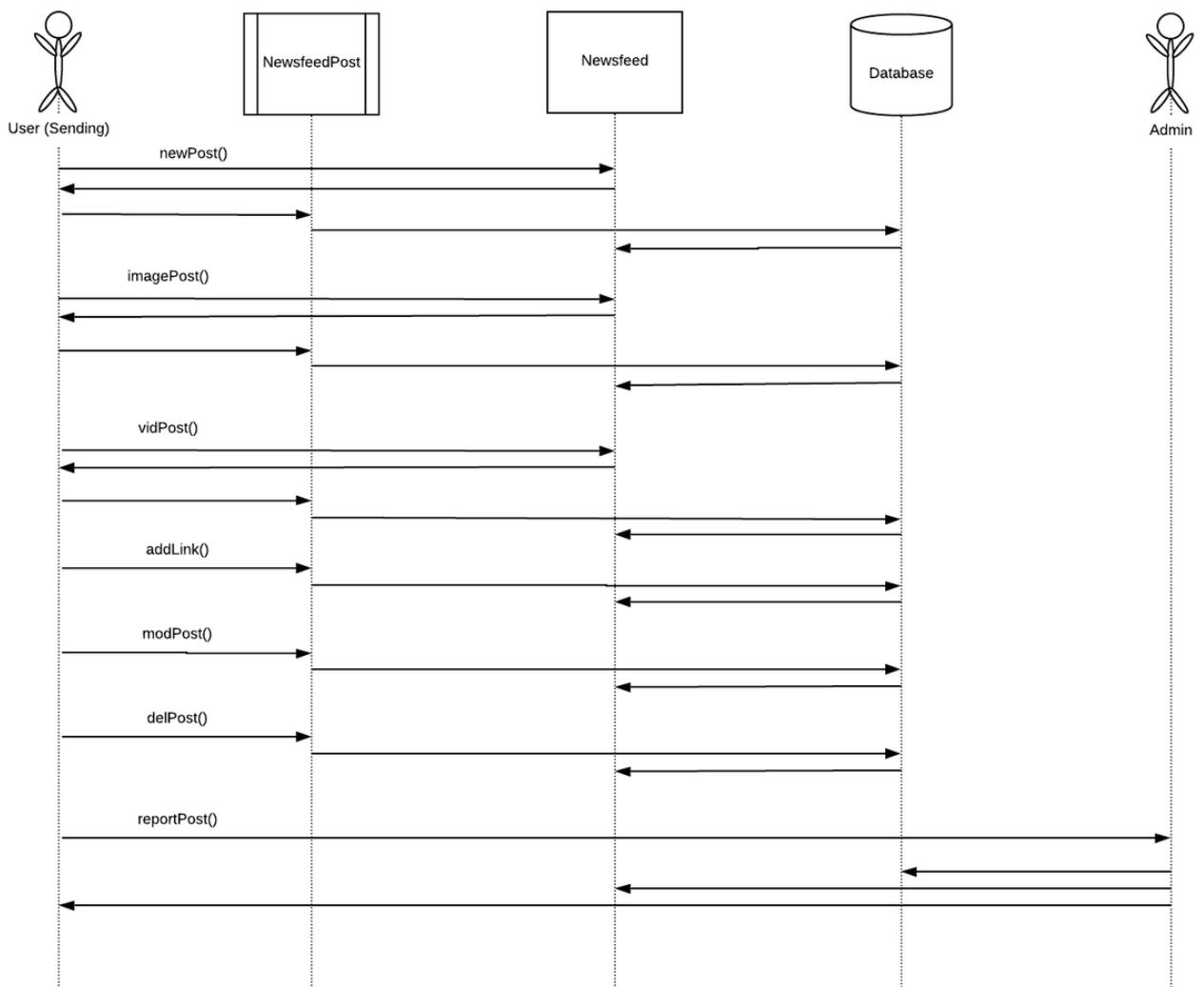
4.1 User must be logged-in

5. Post-conditions

5.1 Newsfeed posts are stored

5.2 Newsfeed is updated for all users

Newsfeed Sequence Diagram



Use Case Specification: Delete Post from Newsfeed

1. Use-Case Name

1.1 Brief Description

Users will have the ability to delete their newsfeed posts at any time, however the post will still be stored in the Branches™ database if needed for review.

2. Flow of Events

2.1 Basic Flow

- User navigates to their post on the newsfeed
- User selects the “Edit” link on their post
- User selects the “Delete Post” option on the edit form
- User confirms their intentions by selecting “OK” on the follow-up prompt

2.2 Alternative Flows

Delete from “My Posts” section

- User selects “My Posts” link from the dashboard
- User selects the “Edit” link on the desired post
- User selects “Delete Post” from the edit form
- User confirms their intentions by selecting “OK” on the follow-up prompt

3. Special Requirements

3.1 Post Storage

- Each post will be date/time stamped and stored, as will each iteration of the post/comments. These will remain in the Branches™ database even if deleted from newsfeed.

4. Pre-conditions

4.1 User must be logged-in

5. Post-conditions

5.1 Newsfeed is updated for all users

Use Case Specification: Modify Post on Newsfeed

1. Use-Case Name

1.1 Brief Description

Users will have the ability to modify any post made to the newsfeed, whether to correct spelling errors, fix a broken link, attach a video, etc.

2. Flow of Events

2.1 Basic Flow

- User selects “Modify Post” link on post from dashboard
- User edits post in form
- User selects “Post” button

2.2 Alternative Flows

Attach an Image

- User selects “Modify Post” from dashboard
- User selects “Attachment” link in form
- User selects “Image” from drop-down menu
- User selects compatible image from their device to upload
- User edits post in form
- User selects “Post” button

Attach an Video

- User selects “Modify Post” from dashboard
- User selects “Attachment” link in form
- User selects “Video” from drop-down menu
- User selects compatible video from their device to upload
- User edits post in form
- User selects “Post” button

Add a Link

- User selects “Modify Post” from dashboard
- User selects “Attachment” link in form
- User selects “Link” from drop-down menu
- User enters link in text box on form
- User edits post in form
- User selects “Post” button

3. Special Requirements

3.1 Post Storage

- Each post will be date/time stamped and stored, as will each iteration of the post/comments.

4. Pre-conditions

4.1 User must be logged-in

5. Post-conditions

5.1 Newsfeed posts are stored

5.2 Newsfeed is updated for all users

Use Case Specification: Add Comment to Newsfeed

1. Use-Case Name

1.1 Brief Description

Users will have the ability to leave messages on the newsfeed posts of their peers and potential/previous mentors.

2. Flow of Events

2.1 Basic Flow

- User views newsfeed from their dashboard
- User selects “Add Comment” link
- User composes comment in form
- User selects “Send” button

2.2 Alternative Flows

Report Abuse

- User right-clicks abusive comment
- User selects “Report Abuse” from pop-up window
- User makes additional remarks if necessary
- Admin receives flagged message detailing report

Replying to Comment

- User views original newsfeed post/comments
- User selects “Reply” link on the comment of the intended recipient
- User composes comment in form
- Student selects “Send” button
- Comments are updated on newsfeed post

3. Special Requirements

3.1 *Comment Storage*

- All comments will need to be stored and date/time stamped in order to have them on hand to view if necessary.

3.2 *Abusive Comment*

- In the case of an abusive comment, the comment in question will need to be flagged and attached to the abuse report.

4. Pre-conditions

4.1 *User must be logged-in*

5. Post-conditions

5.1 *Comments are date/time stamped*

5.2 *Comments are updated in newsfeed for users to view*

5.3 *User receiving is notified of a new comment*

Use Case Specification: Modify Comment on Newsfeed

1. Use-Case Name

1.1 Brief Description

Users will have the ability to leave messages on the newsfeed posts of their peers and potential/previous mentors, they will also have the ability to modify these comments at any time, however each iteration will be recorded.

2. Flow of Events

2.1 Basic Flow

- User navigates to their comment in the newsfeed
- User selects the “Edit” link on their comment
- User edits the comment in the form
- User selects “Send” when complete

2.2 Alternative Flows

Modify from “My Comments” section

- User navigates to “My Comments” section from dashboard
- User selects the “Edit” link on the comment they wish to modify
- User edits comment in form
- User selects “Send” when complete

3. Special Requirements

3.1 Comment Storage

- Each comment will be date/time stamped and stored, as will each iteration of the post/comments.

4. Pre-conditions

4.1 User must be logged-in

5. Post-conditions

5.1 Comments are stored

5.2 Newsfeed is updated for all users

Use Case Specification: Delete Comment from Newsfeed

1. Use-Case Name

1.1 Brief Description

Students will have the ability to delete any comment that they have left on the newsfeed function of Branches™ services.

2. Flow of Events

2.1 Basic Flow

- User navigates to their comment on a newsfeed post
- User selects “Edit” link on the comment
- User selects “Delete” link in the form
- User selects “OK” on follow-up prompt

2.2 Alternative Flows

Delete from “My Comments”

- User navigates to the “My Comments” section of the dashboard
- User selects the comment they wish to edit
- User selects the “Delete Comment” link on the edit form
- User selects “OK” on the follow-up form to confirm intention

3. Special Requirements

3.1 Comment Storage

- All comments will need to be stored and date/time stamped in order to have them on hand to view if necessary, the deleted comment will still remain stored in the database.

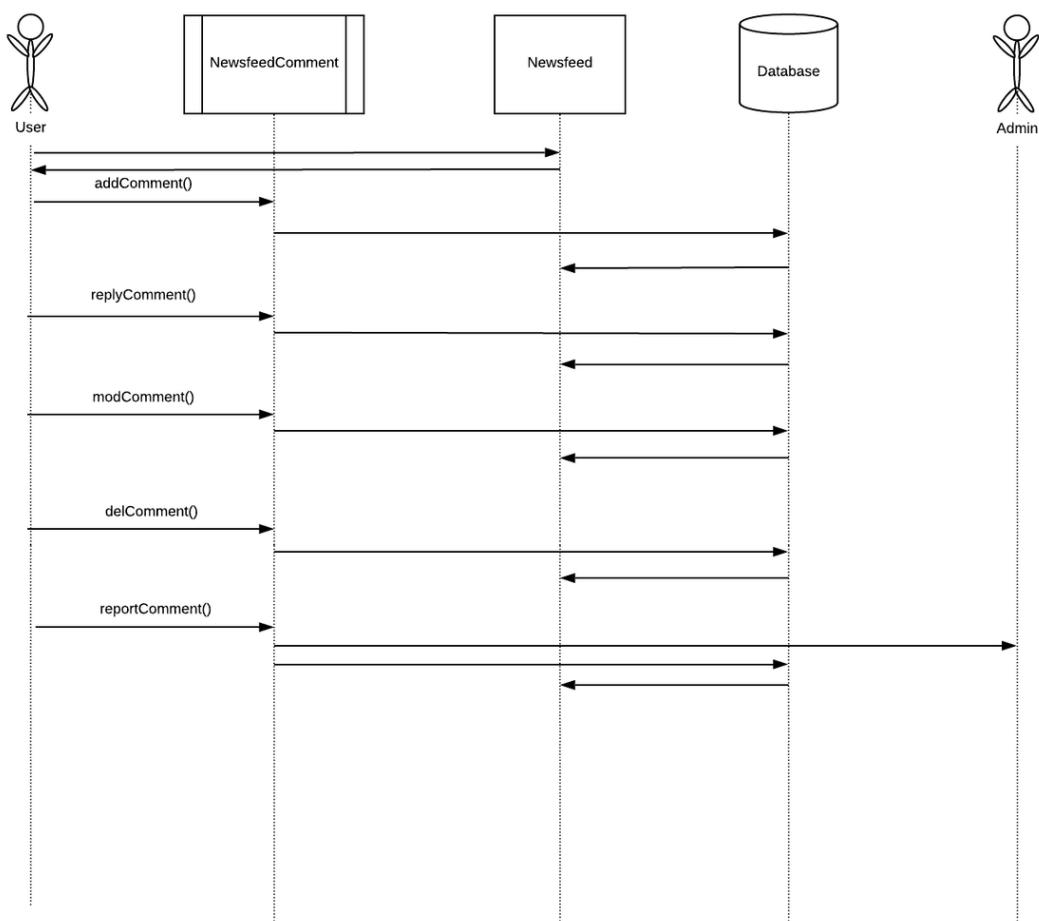
4. Pre-conditions

4.1 User must be logged-in

5. Post-conditions

5.1 Newsfeed is updated

Comment Sequence Diagram



Use Case Specification: Like Post on Newsfeed

1. Use-Case Name

1.1 Brief Description

Users will have the ability to “Like” other users newsfeed posts, this will allow them to save their favorite posts to view quickly as well as RSVP for events, and show support of a cause/idea.

2. Flow of Events

2.1 Basic Flow

- User browses newsfeed
- User selects “Like” button on desired post
- Like button is toggled

3. Special Requirements

3.1 Save Likes

- All previous likes will be available to the user under the “My Likes” link on their dashboard.

4. Pre-conditions

4.1 User must be logged-in

5. Post-conditions

5.1 Like is saved to favorites

Use Case Specification: Delete Like from Newsfeed

1. Use-Case Name

1.1 Brief Description

Users can “un-like” any post that they have previously “Liked” on the newsfeed. This will remove the post from their favorited post section, seen as “My Likes” on their dashboard.

2. Flow of Events

2.1 Basic Flow

- User browses newsfeed
- User selects “Like” button on desired post
- Like button is toggled

2.2 Alternative Flows

Delete from “My Likes” section

- User selects “My Likes” link from the dashboard
- User toggles the Like button on the desired post
- Un-liked post is removed from “My Likes”

3. Special Requirements

3.1 Save Likes

- All previous Likes will be available to the user under the “My Likes” link on their dashboard, toggling off the Like button will remove the post from this section.

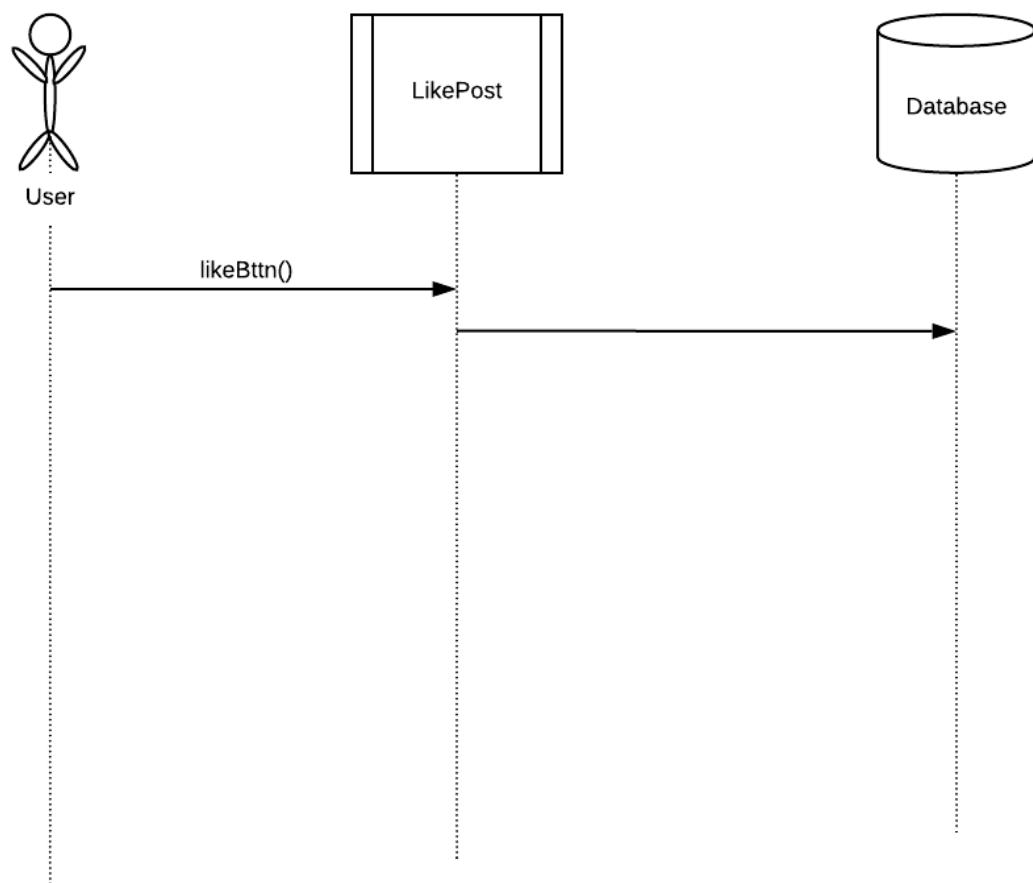
4. Pre-conditions

4.1 *User must be logged-in*

5. Post-conditions

5.1 *Like is removed from favorites*

Like Sequence Diagram



Use Case Specification: Add Appointment

1. Add Appointment

1.1 Brief Description

The purpose of this use case is to allow mentees to book appointments with their mentors. Mentees will be able to view the calendar to see when appointments are available with their mentors and book them.

2. Flow of Events

2.1 Basic Flow

- The mentee selects “Book an appointment” on the calendar page.
- The system directs them to the “Book an Appointment with your Mentor” page.
- The mentee enters a date.
- The mentee enters a starting time.
- The mentee selects “Book Appointment”.
- The system verifies the appointment time.
- The system books the appointment
- The system notifies the mentor that the appointment with them has been scheduled.
- The system displays that the appointment time slot is booked on the calendar.

2.2 Alternative Flow

None.

3. Special Requirements

None.

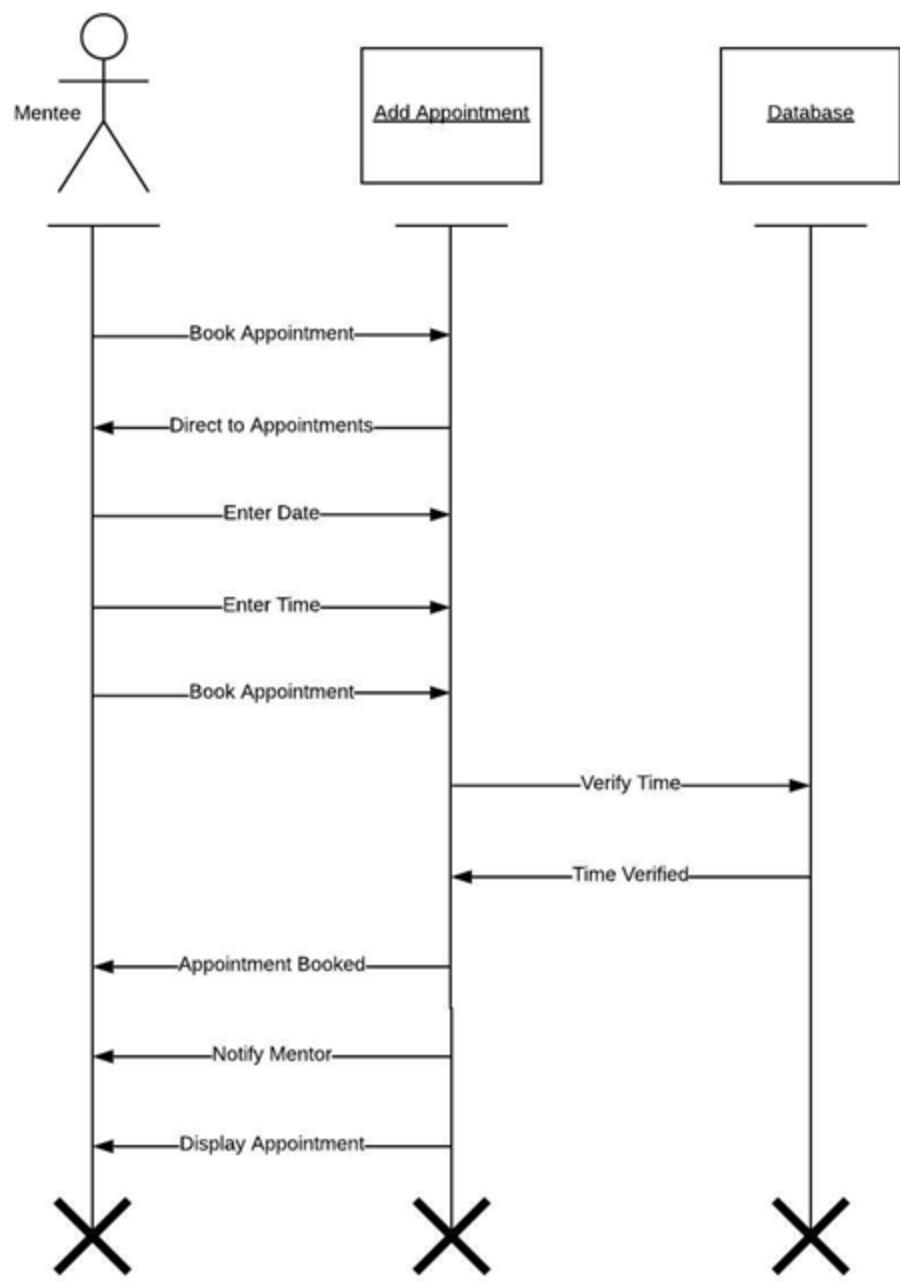
4. Pre-conditions

- 4.1 The service is available.
- 4.2 The mentee must be logged into the system.

5. Post-conditions

- 5.1 Mentor is notified of appointment.
- 5.2 The calendar is updated.

Add Appointment Sequence Diagram



Use Case Specification: Delete Appointment

1. Delete Appointment

1.1 Brief Description

The purpose of this use case is to allow mentees to cancel appointments with their mentors. Mentees will be able to view the calendar to see when they have appointments with their mentors and cancel them accordingly.

2. Flow of Events

2.1 Basic Flow

- The mentee selects the date their appointment is scheduled.
- The mentee selects “Cancel appointment”.
- The system asks for confirmation.
- The mentee selects “Yes”.
- The system cancels the appointment.
- The system notifies the mentor that the appointment has been canceled.
- The system displays that the appointment time slot is no longer booked on the calendar.

2.2 Alternative Flow

None.

3. Special Requirements

None.

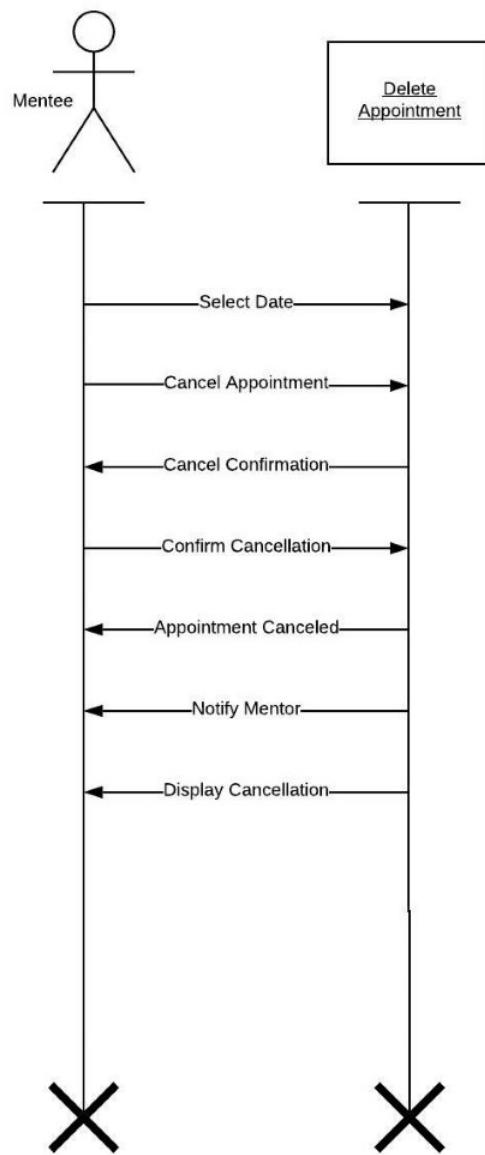
4. Pre-conditions

- 4.1 The service is available.
- 4.2 The mentee must be logged into the system.

5. Post-conditions

- 5.1 Mentor is notified of cancelation.
- 5.2 The calendar is updated.

Delete Appointment Sequence Diagram



Use Case Specification: Add Availability

1. Add Availability

1.1 Brief Description

The purpose of this use case is to allow the mentors of Branches let mentees know when they are available for appointments. The times slots mentors make themselves available will be shown in the Branches calendar.

2. Flow of Events

2.1 Basic Flow

The mentor selects “Schedule availability” on the calendar page.

- The system directs them to the “Schedule Your Time Slot” page.
- The mentor enters a date they are available.
- The mentor enters a time slot they are available.
- The mentor selects “Schedule”.
- The system verifies the time.
- The system schedules availability.
- The system displays the availability on the calendar.

2.2 Alternative Flows

None

3. Special Requirements

3.1 None

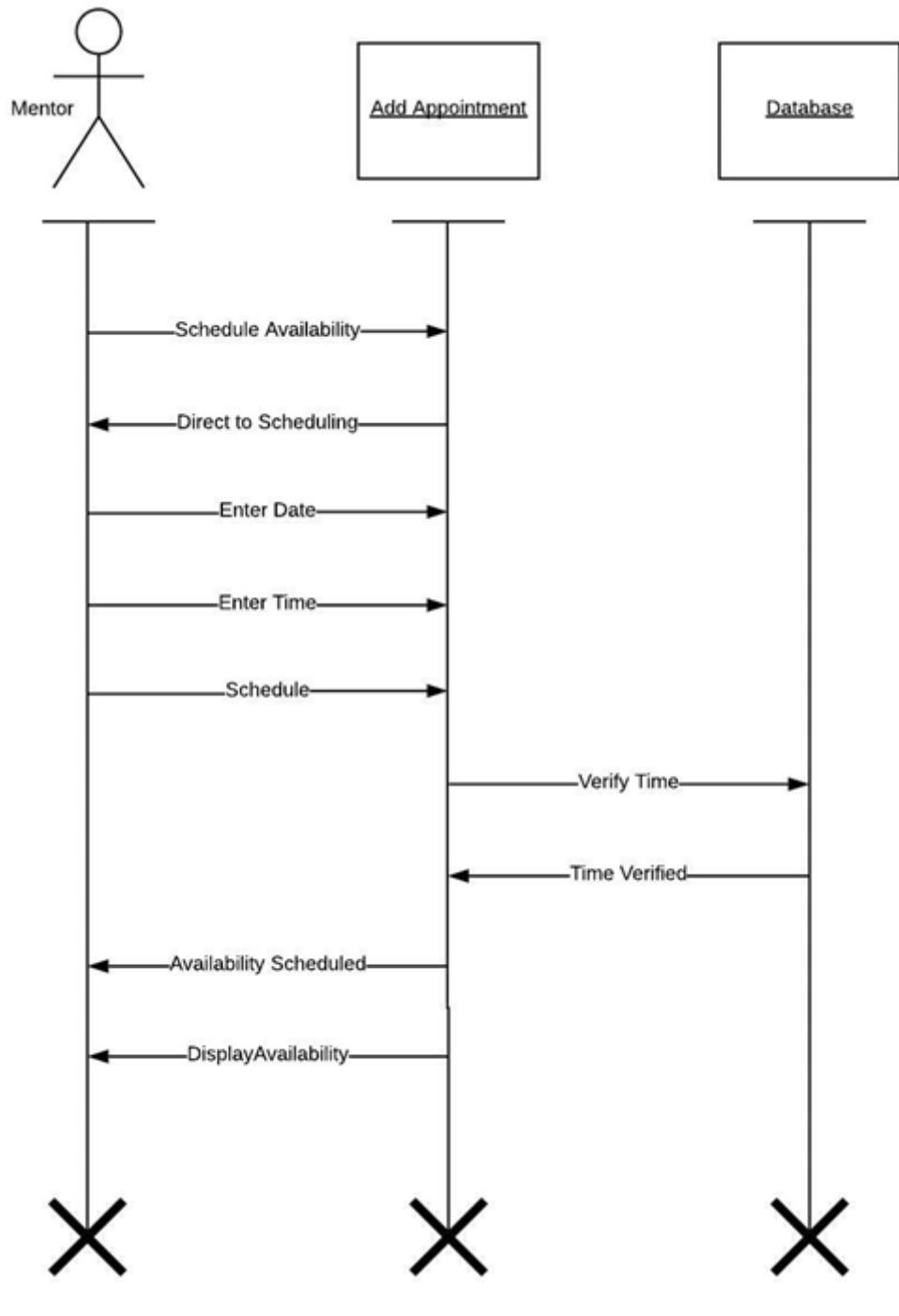
4. Pre-conditions

- 4.1 The system is available.
- 4.2 The mentor must be logged into the system.

5. Post-conditions

- 5.1 The calendar is updated.

Add Availability Sequence Diagram



Use Case Specification: Delete Availability

1. Delete Availability

1.1 Brief Description

The purpose of this use case is to allow the mentors of Branches to delete time slots of availability for appointments when they will no longer be available for those times. The time slots mentors make themselves unavailable will be removed from the Branches calendar.

2. Flow of Events

2.1 Basic Flow

- The mentor selects “Schedule availability” on the calendar page.
- The system directs them to the “Schedule Your Time Slot” page.
- The mentor selects “Delete Time Slot”.
- The system directs them to the “Remove Time Slot” Page.
- The mentor enters the date.
- The system displays their availability for that date.
- The mentor selects “Yes”.
- The system asks for confirmation.
- The mentor selects “Yes”.
- The system verifies the time.
- The system removes the time slot.
- The system displays the changes on the calendar.

2.2 Alternative Flows

None

3. Special Requirements

3.1 None

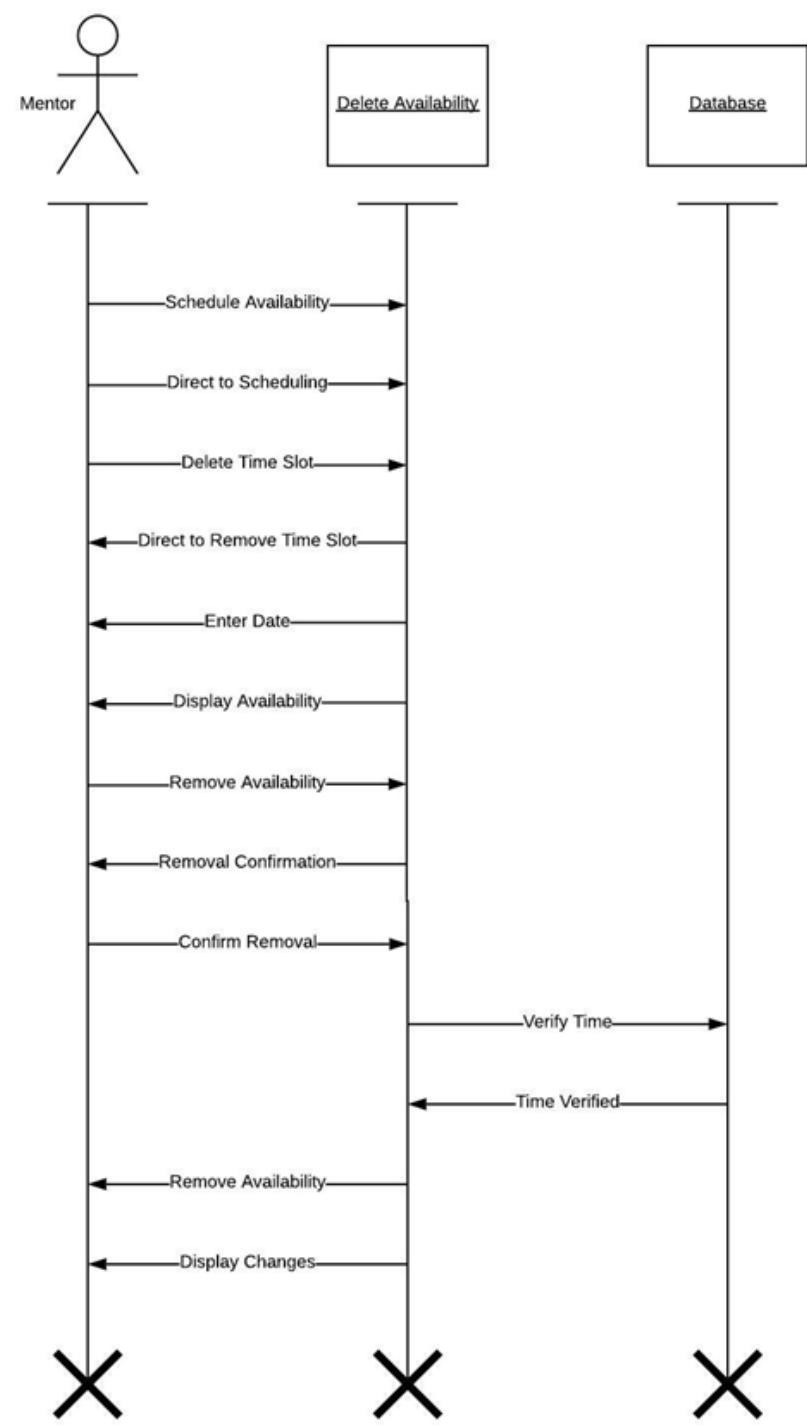
4. Pre-conditions

- 4.1 The system is available.
- 4.2 The mentor must be logged into the system.

5. Post-conditions

- 5.1 The calendar is updated.

Delete Availability Sequence Diagram



Use Case Specification: Add Mentor Feedback

1. Add Mentor Feedback

1.1 Brief Description

As the mentoring relationship comes to an end, the mentee will be prompted to give feedback to their mentor directly. The feedback will consist of a small set of yes or no questions to ensure they fulfilled their role as a mentor. This feedback will be private to the mentor.

2 Flow of Events

2.1 Basic Flow

- The mentee completes their mentoring relationship with their mentor.
- The system verifies completion.
- The system prompts the mentee to give feedback.
- The mentee selects “Yes”.
- The system directs them to the “Mentor Feedback” page.
- The mentee enters an answer to “Did this person fulfill their role as a mentor?”
- The mentee enters comments elaborating on their answer.
- The mentee selects “Submit Feedback”.
- The system provides the feedback to the mentor.
- The system directs the mentee to the “Home” page.

2.2 Alternative Flows

None

3 Special Requirements

3.1 None

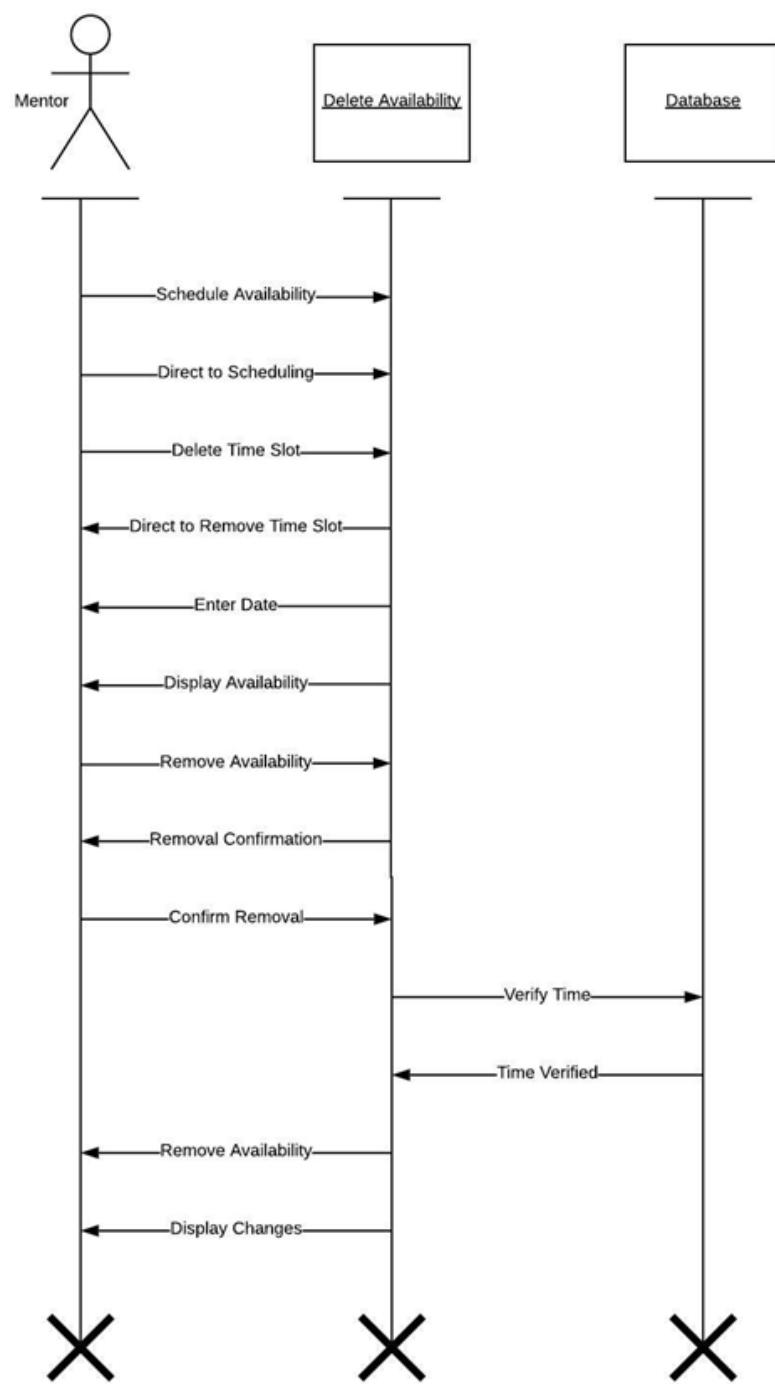
4 Pre-conditions

- 4.1 The system must be available.
- 4.2 The mentee must be logged into the system.

5 Post-conditions

- 5.1 The mentor receives the feedback results.

Add Mentor Feedback Sequence Diagram



Use Case Specification: Add Mentee Feedback

1. Add Mentee Feedback

1.1 Brief Description

As the mentoring relationship comes to an end, the mentor will be prompted to give feedback to their mentee directly. The feedback will consist of a small set of yes or no questions to ensure they fulfilled their role as a mentee. This feedback will be private to the mentee.

2. Flow of Events

2.1 Basic Flow

- The mentor completes their mentoring relationship with their mentee.
- The system verifies completion.
- The system prompts the mentor to give feedback.
- The mentor selects “Yes”.
- The system directs them to the “Mentee Feedback” page.
- The mentor enters an answer to “Did this person fulfill their role as a mentee?”
- The mentor enters comments elaborating on their answer.
- The mentor selects “Submit Feedback”.
- The system provides the feedback to the mentee.
- The system directs the mentor to the “Home” page.

2.2 Alternative Flows

None

3. Special Requirements

3.1 None

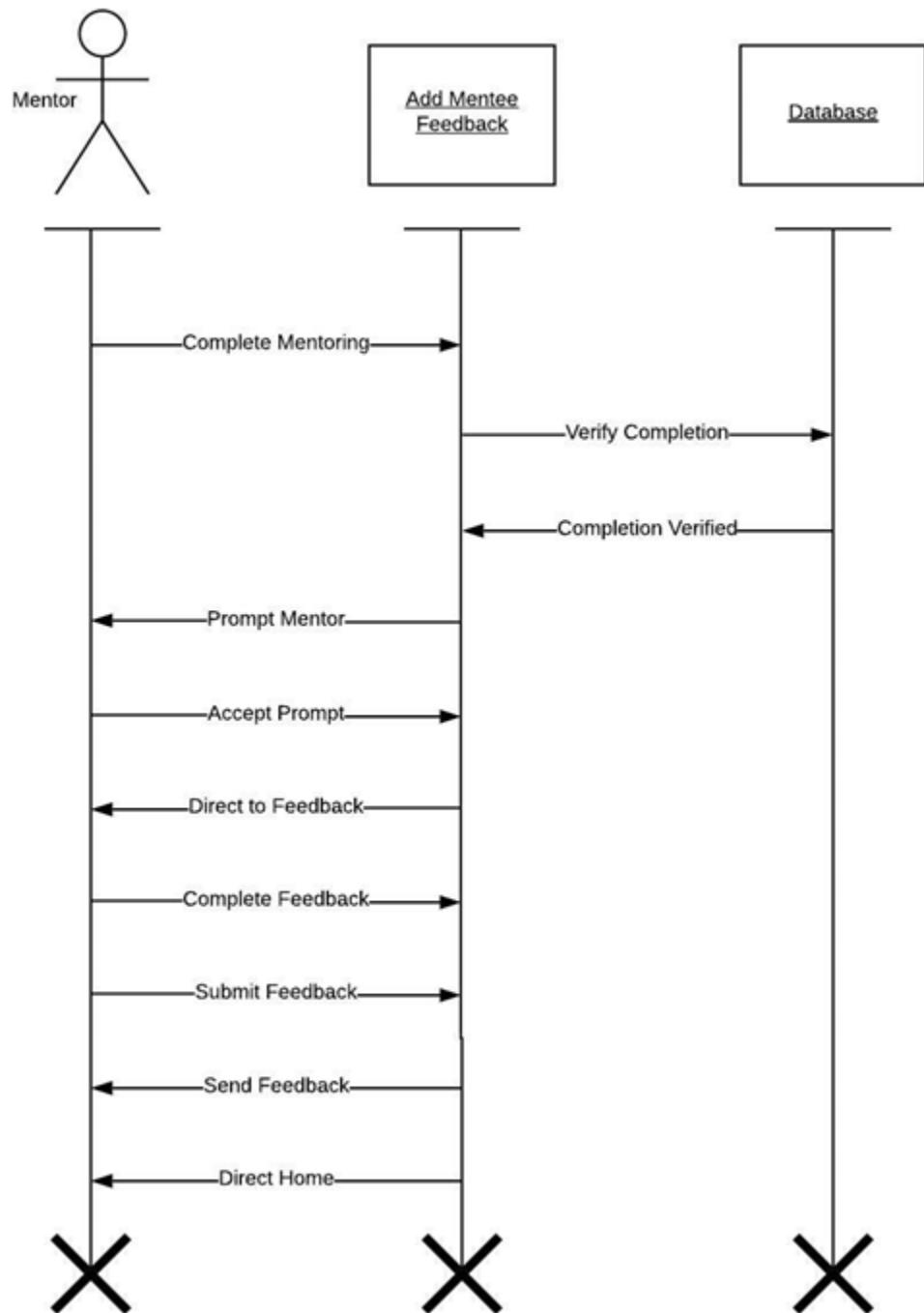
4. Pre-conditions

- 4.1 The system must be available.
- 4.2 The mentor must be logged into the system.

5. Post-conditions

- 5.1 The mentee receives the feedback results.

Add Mentee Feedback Sequence Diagram



Use Case Specification: Add Profile Feedback

1. Add Profile Feedback

1.1 Brief Description

The purpose of this use case is to allow mentees to leave feedback on the profiles of mentors. The feedback is displayed on the profiles and is visible for all users to see. They are essentially reviewing how well the mentor performed. The feedback will help a student learn about their mentor before they start.

2. Flow of Events

2.1 Basic Flow

- The mentee selects “Leave Feedback” on their mentor’s profile page.
- The system verifies the mentee.
- The system directs them to the “Profile Mentor Feedback” page.
- The mentee enters a rating from 1 to 5.
- The mentee enters comments to justify their rating.
- The mentee selects “Post Feedback”.
- The system displays the feedback on the mentor’s profile.
- The system directs the mentee to the mentor’s profile page.

2.2 Alternative Flows

None

3. Special Requirements

3.1 None

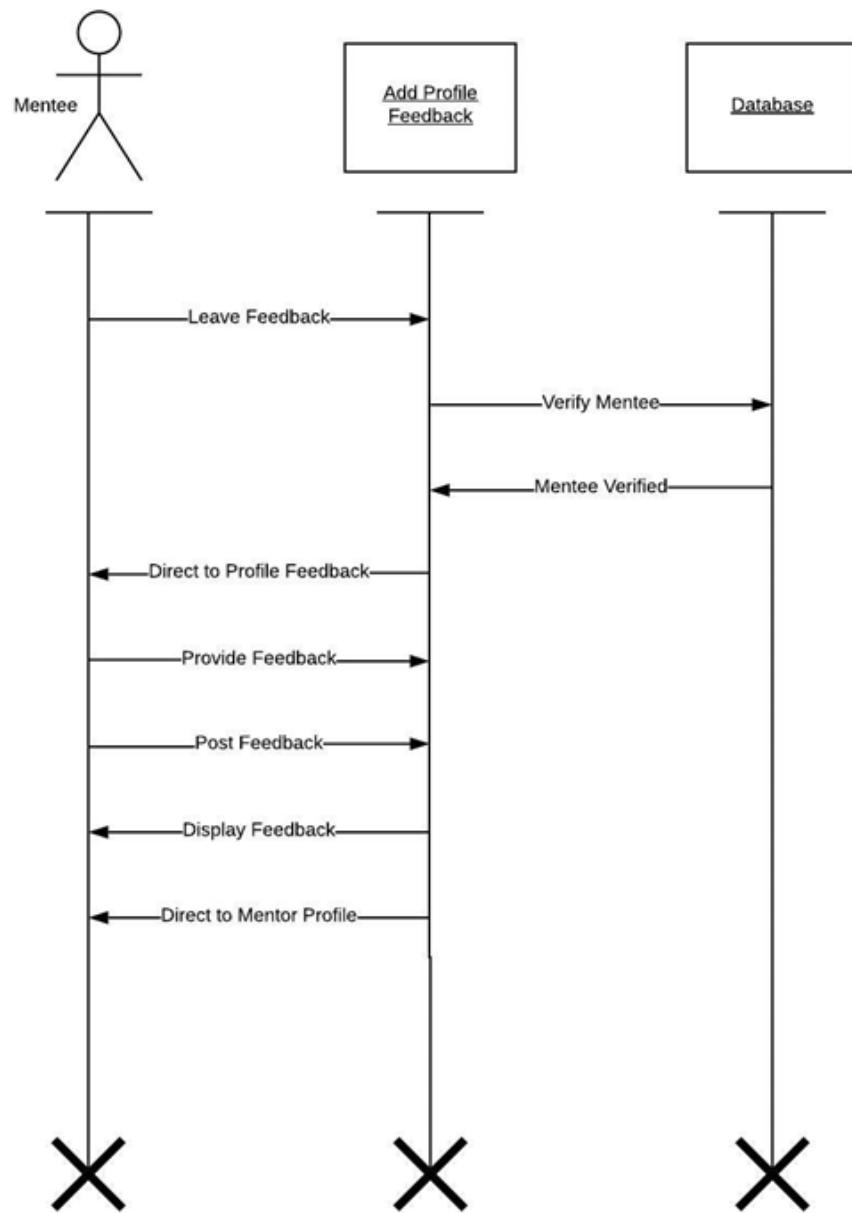
4. Pre-conditions

- 4.1 The System must be available.
- 4.2 The mentee must be logged into the system.
- 4.3 The profile receiving the feedback must be a known mentor in the system.

5. Post-conditions

- 5.1 The feedback is displayed on the mentor’s profile.

Add Profile Feedback Sequence Diagram



Use Case Specification: Delete Profile Feedback

1. Delete Profile Feedback

1.1 Brief Description

The purpose of this use case is to allow mentees to delete feedback they previously left on the profiles of mentors.

2. Flow of Events

2.1 Basic Flow

- The mentee selects “Delete Feedback” on their mentor’s profile page.
- The system verifies the mentee.
- The system asks for confirmation.
- The mentee selects “Yes”.
- The system removes the feedback.

2.2 Alternative Flows

None

3. Special Requirements

3.1 None

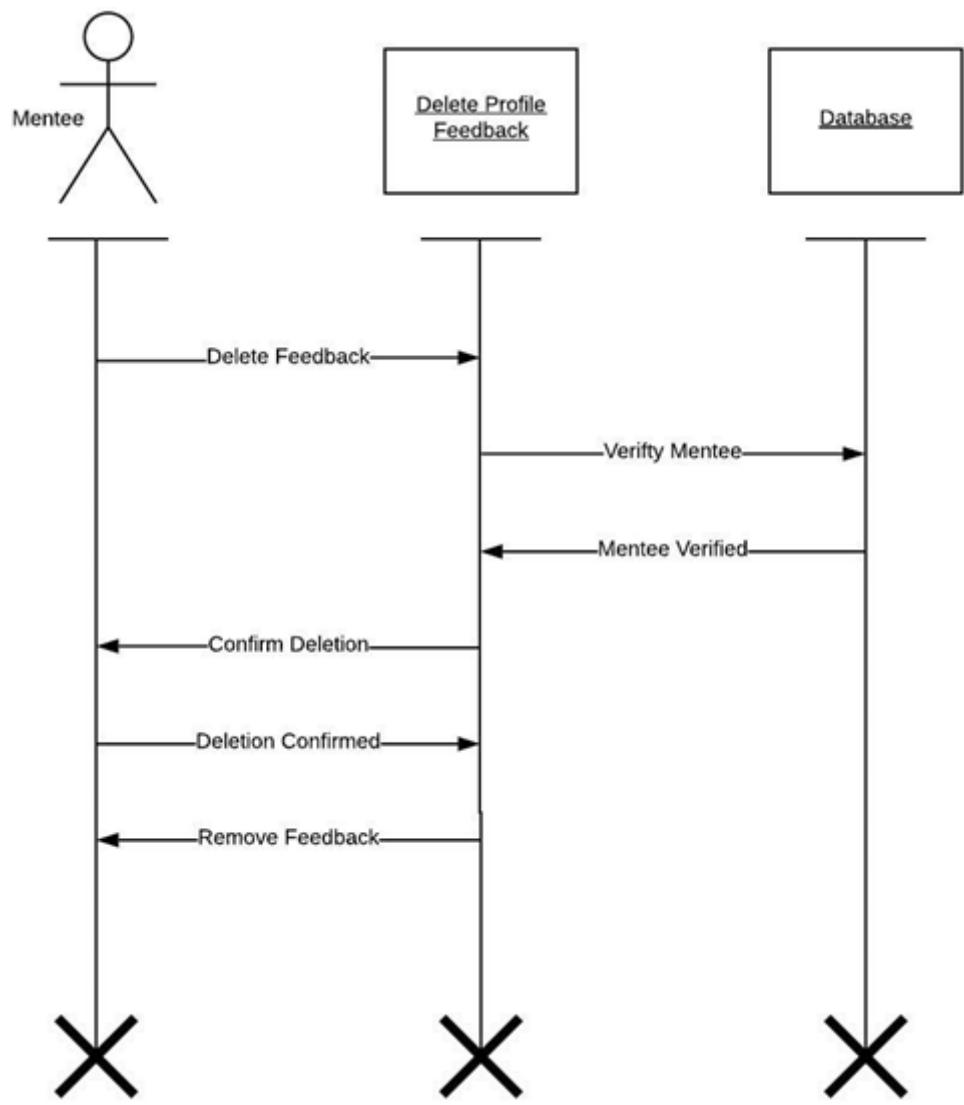
4. Pre-conditions

- 4.1 The System must be available.
- 4.2 The mentee must be logged into the system.

5. Post-conditions

- 5.1 The feedback is removed from the mentor’s profile.

Delete Profile Feedback Sequence Diagram



Use Case Specification: Add Donation

1. Add Donation

1.1 Brief Description

Alumni will have the ability to submit a donation through the Branches system, which will utilize a Content Management System and a Payment Management System to streamline this process.

2. Flow of Events

2.1 Basic Flow

- The System will show 3 average donations.
- The Alumni will select a sum amount.
- The Alumni will specify the exact dollar amount they wish to donate.
- The Alumni will enter their first name.
- The Alumni will enter their last name.
- The Alumni will enter their email address.
- The Alumni will enter an optional message.
- The Alumni will choose their payment method.
- The Alumni will submit the donation.

2.2 Alternative Flows

Payment Choice

- The Alumni will choose between alternative payment methods.
- The Alumni will enter their relevant payment method information.

Submission Cancelled

- The System will cancel the submission due to insufficient funds.

3. Special Requirements

- 3.1 For the donation to be submitted and secured, a payment management system must be integrated within the form.

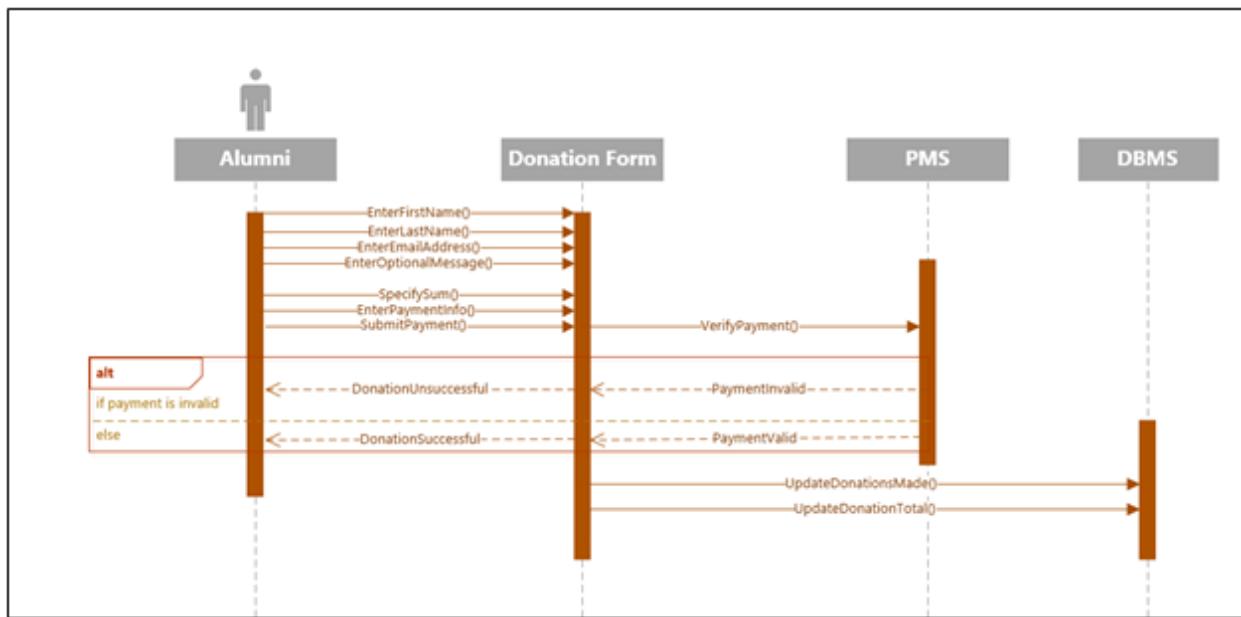
4. Pre-conditions

- 4.1 All services are available.
4.2 Sufficient fund on the user side.

5. Post-conditions

- 5.1 Donation has been submitted.

Add Donation Sequence Diagram



Use Case Specification: Review Donation

1. Review Donation

1.1 Brief Description

The Administrator will be able to review all donations made by alumni.

2. Flow of Events

2.1 Basic Flow

- The Administrator shall review the donor list.
- The Administrator shall review the donation amount.
- The Administrator shall review the donation date.
- The Administrator shall review the donation time.

2.2 Alternative Flows

- None

3. Special Requirements

- 3.1 None

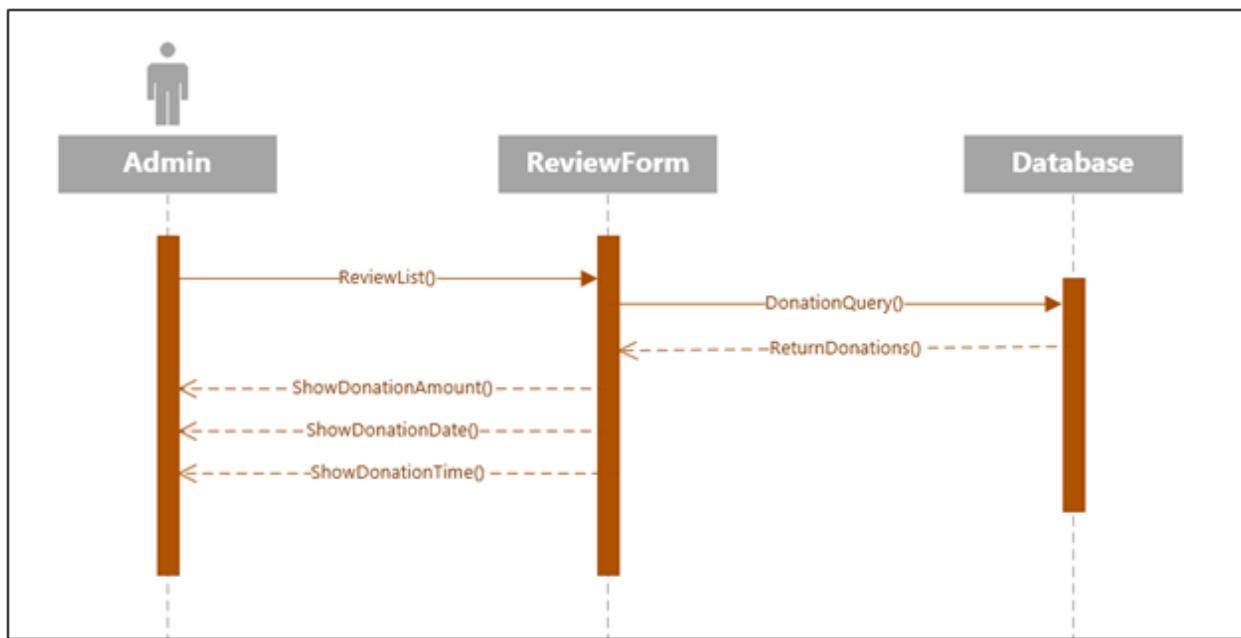
4. Pre-conditions

- 4.1 All services are available.

5. Post-conditions

- 5.1 Donations Reviewed.

Review Donation Sequence Diagram



Use Case Specification: Modify Donation

1. Modify Donation

1.1 Brief Description

The Administrator will be able to modify the amount of a donation submitted *only* at the request of the alumni who donated the sum.

2. Flow of Events

2.1 Basic Flow

- The Administrator shall select the donation in question.
- The Administrator shall specify a new value.
- The Administrator shall submit the change request.
- The System shall process the refund.

2.2 Alternative Flows

- None

3. Special Requirements

- 3.1 For a donation to be modified, a payment management system must be integrated within the form.

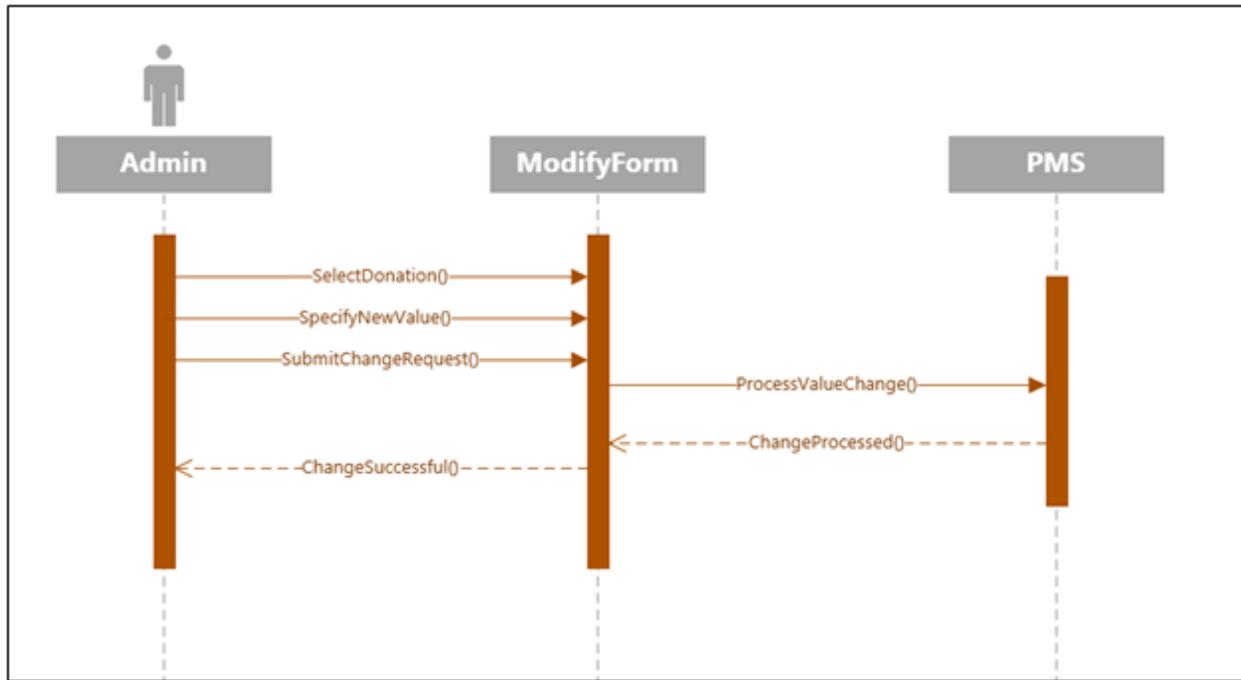
4. Pre-conditions

- 4.1 All services are available

5. Post-conditions

- 5.1 Donation has been reduced.

Modify Donation Sequence Diagram



Use Case Specification: Delete Donation

1. Delete Donation

1.1 Brief Description

The Administrator will be able to refund a donation at the request of the alumni who donated the sum.

2. Flow of Events

2.1 Basic Flow

- The Administrator shall select the donation previously submitted.
- The Administrator shall submit a refund request.
- The System shall process the refund request.

2.2 Alternative Flows

- None

3. Special Requirements

3.1 For a donation to be refunded, a payment management system must be integrated within the form.

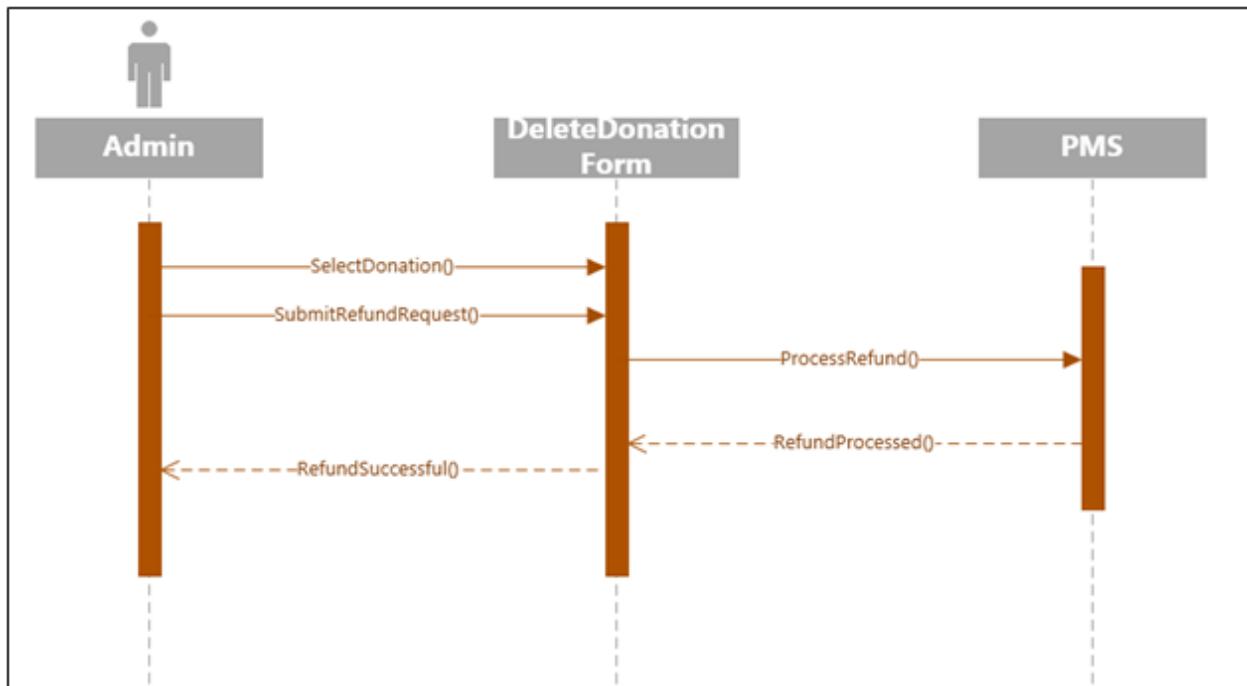
4. Pre-conditions

- 4.1 All services are available.
- 4.2 A donation was submitted.

5. Post-conditions

- 5.2 Donation has been refunded.

Delete Donation Sequence Diagram



Use Case Specification: Back-Up Data

1. Back-Up Data

1.1 Brief Description

- The System administrator will be able to manually back-up data and the system will make automated recurring back-ups.

2. Flow of Events

2.1 Basic Flow

- The Administrator will create a back-up of the data.
- The System will make recurring back-ups every Friday at 12:00 pm.

2.2 Alternative Flows

Adjust Recurring Back-Up Date

- The Administrator will change the frequency for each recurring back-up.

Adjust Recurring Back-Up Time

- The Administrator will adjust the time of the recurring back-ups.

3. Special Requirements

- 3.1 None

4. Pre-conditions

4.1 Service Availability

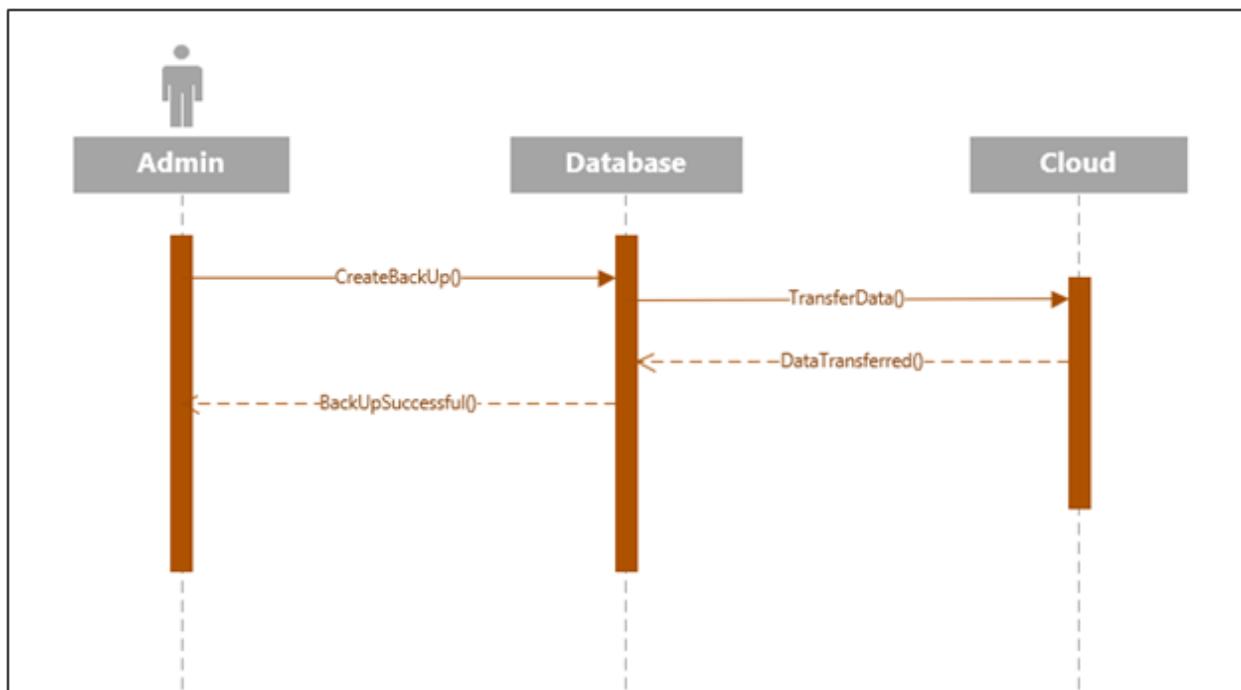
- Service must be readily available

5. Post-conditions

5.1 Data Backed-Up

- Data is backed up.

Back-Up Data Sequence Diagram



Use Case Specification: Recover Data

1. Back-Up Data

1.1 Brief Description

- The System administrator will be able to recover any data that was backed-up/duplicated.

2. Flow of Events

2.1 Basic Flow

- The Administrator will select the date of recovery.
- The Administrator will recover the data.
- The System will restore the lost data.

2.2 Alternative Flows

- None

3. Special Requirements

- None

4. Pre-conditions

4.1 Service Availability

- Service must be readily available

5. Post-conditions

5.1 Data Recovered

- Data is recovered.

Recover Data Sequence Diagram



Use Case Specification: Create Email Blast

1. Create Email Blast

1.1 Brief Description

The Administrator will be able to send out a single email to every user in the system with the click of a button.

2. Flow of Events

2.1 Basic Flow

- The Administrator shall specify the subject matter.
- The Administrator shall compose a message.
- The Administrator shall attach an image.
- The Administrator shall attach a document.
- The Administrator shall select recipients.
- The Administrator shall send the message.

2.2 Alternative Flows

- The Administrator shall filter the demographics of the recipients.

3. Special Requirements

- None

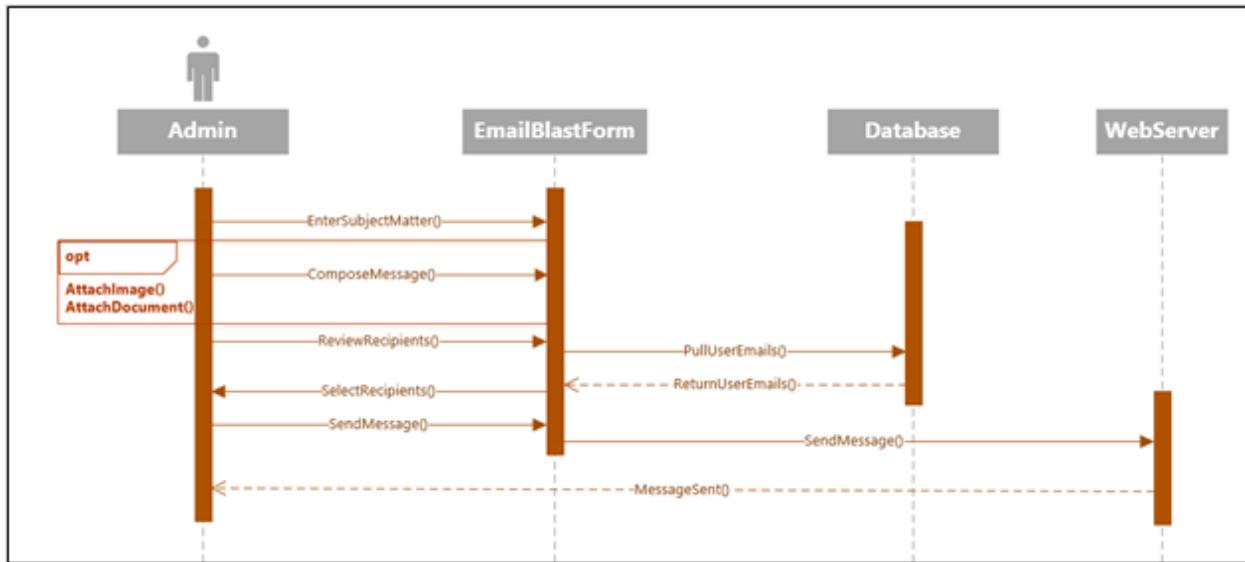
4. Pre-conditions

- 4.1 All services are available.

5. Post-conditions

- 5.1 Email blast has been sent.

Create Email Blast Sequence Diagram



Use Case Specification: Fetch Diagnostics

1. Fetch Diagnostics

1.1 Brief Description

The Administrator will be able to fetch diagnostics that detail how effectively the system is functioning and/or serving its purpose.

2. Flow of Events

2.1 Basic Flow

- The Administrator shall request a report.
- The System will return the total mentor/mentee matches made.
- The System will show the total number of people enrolled.
- The System will show the growth rate of the user base.
- The System will report total donations made.
- The System will report the sum of all donations.
- The System will show the attrition rate of previous terms.
- The System will report the current CIS attrition rate.

2.2 Alternative Flows

- None

3. Special Requirements

- None

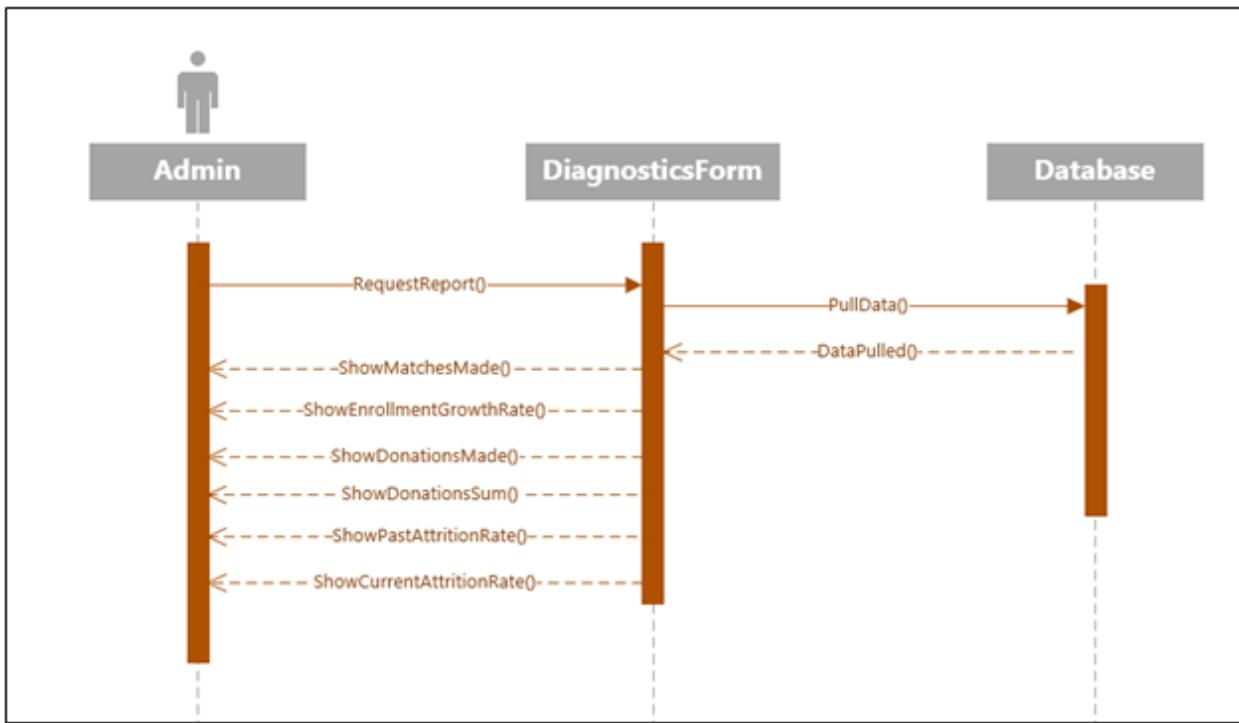
4. Pre-conditions

- 4.1 All services are available.

5. Post-conditions

- 5.1 Diagnostics are returned.

Fetch Diagnostics Sequence Diagram



Use Case Specification: Report Crisis

1. Report Crisis

1.1 Brief Description

Students will have the ability to report any potential crisis to the system administrator.

2. Flow of Events

2.1 Basic Flow

- The Student will select the date of the crisis occurrence.
- The Student will state the time of the crisis occurrence.
- The Student will describe the crisis.
- The Student will send the crisis to the administrator.
- The System will alert the System Administrator.

2.2 Alternative Flows

- None

3. Special Requirements

- None

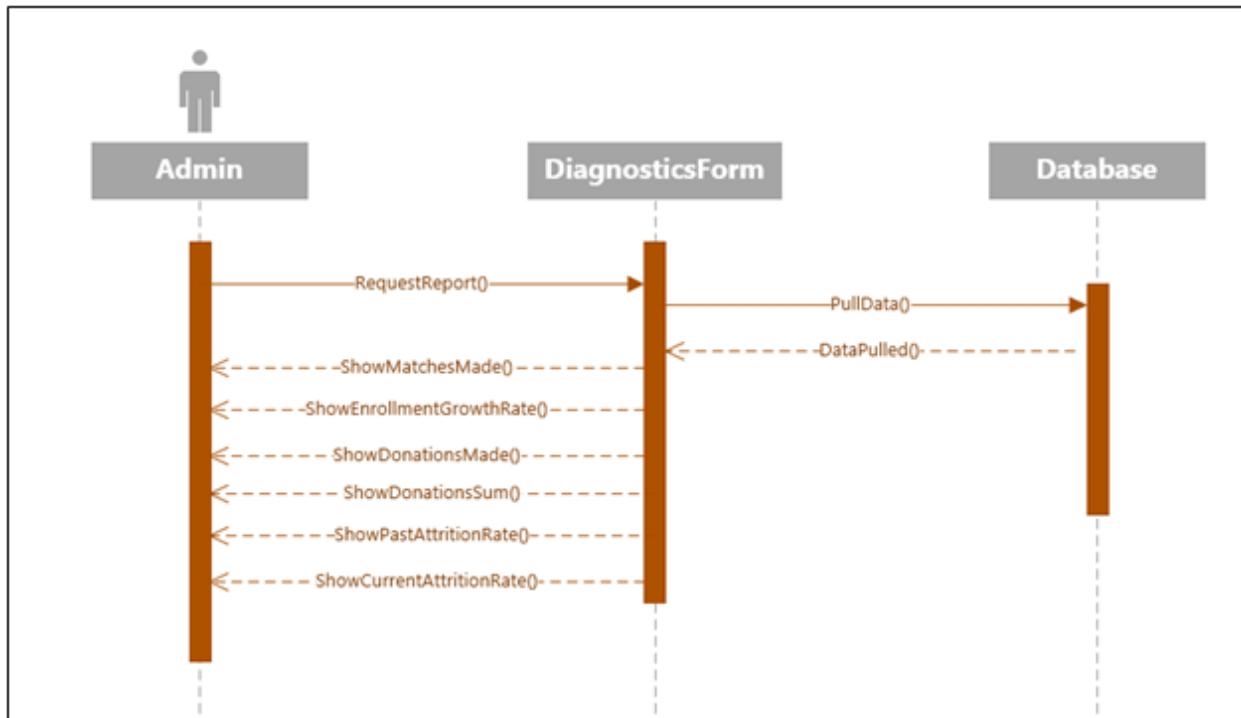
4. Pre-conditions

- 4.1 Service availability
- 4.2 Student must be logged in to the system.

5. Post-conditions

- 5.1 Administrator is alerted of crisis.

Report Crisis Sequence Diagram



Use Case Specification: Review Crisis

1. Review Crisis

1.1 Brief Description

Review all potential crises submitted through the system by students.

2. Flow of Events

2.1 Basic Flow

- The Administrator will review the crisis submission date.
- The Administrator will review the date of the crisis occurrence.
- The Administrator will review the crisis description.
- The Administrator shall issue a response.

2.2 Alternative Flows

- None
-

3. Special Requirements

- None

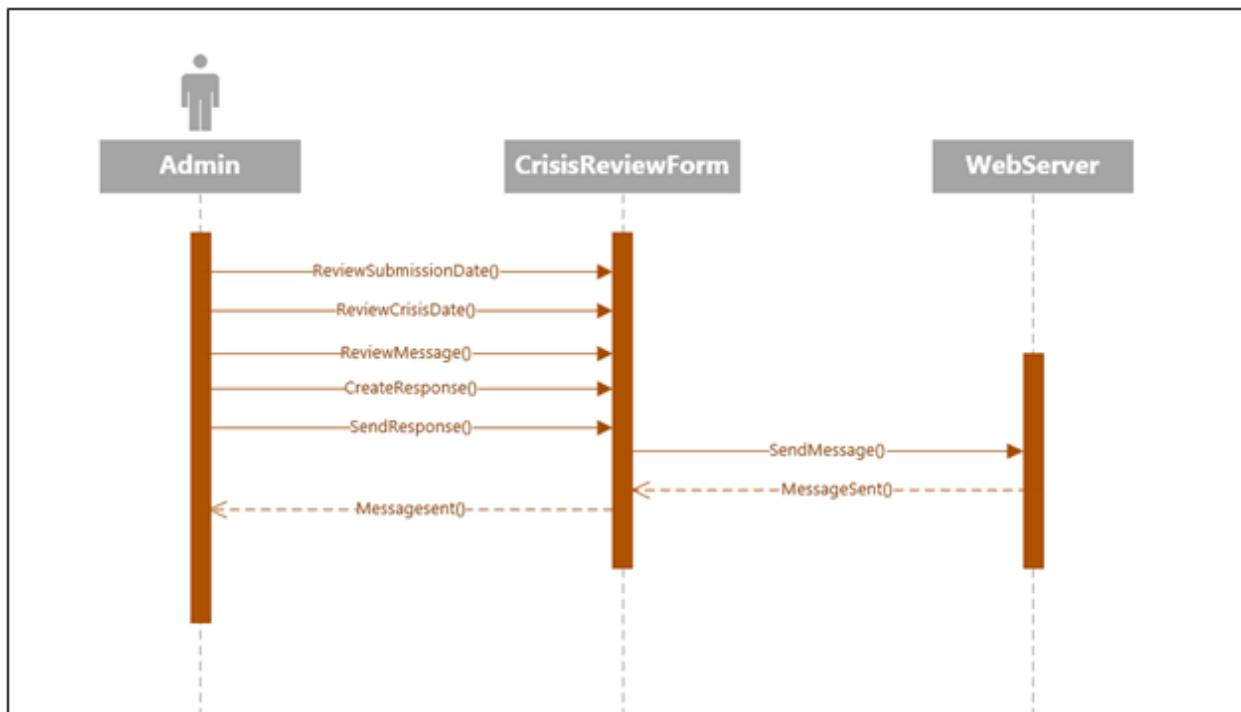
4. Pre-conditions

- 4.1 All services are available.
- 4.3 Crisis has been submitted.

5. Post-conditions

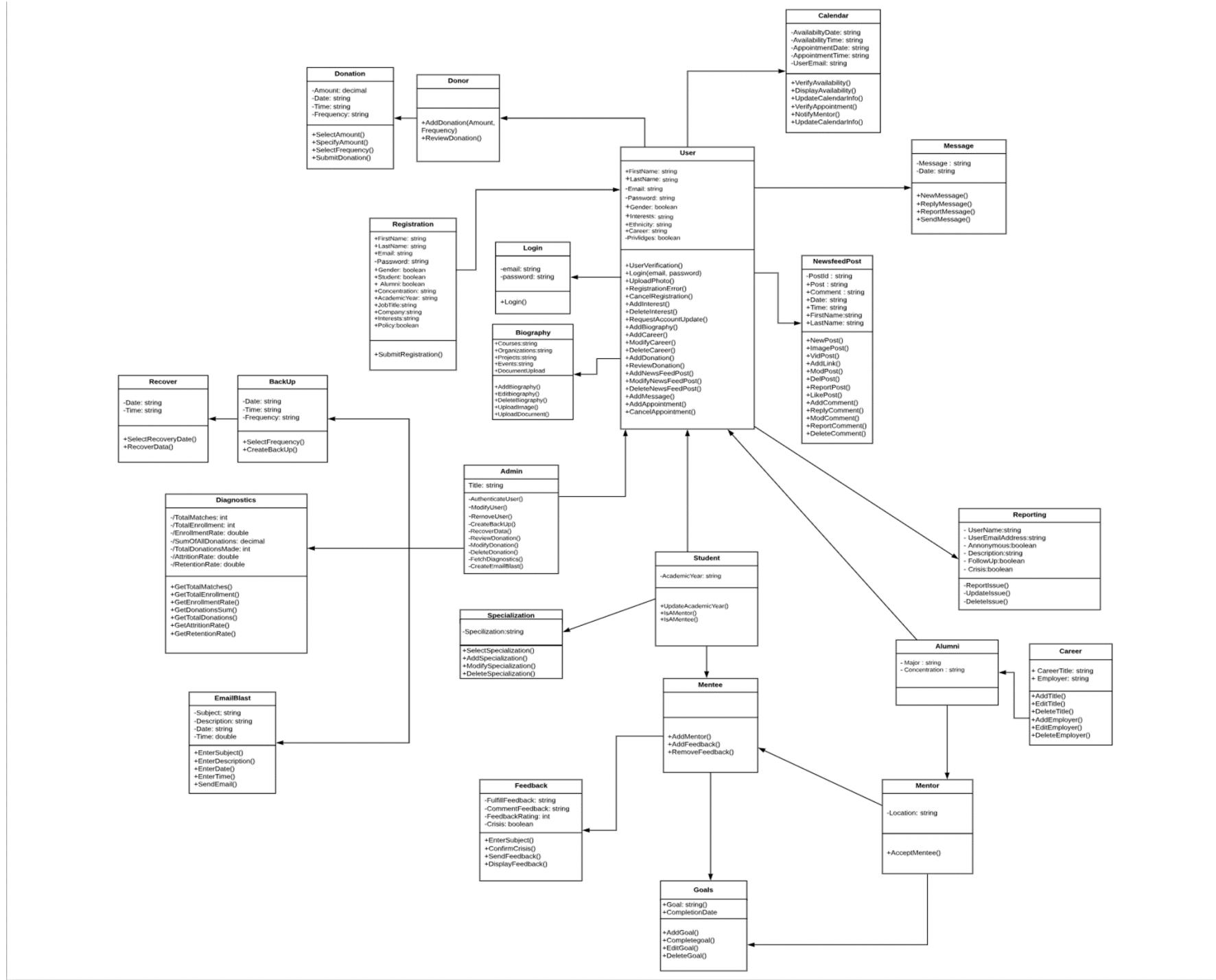
- 5.1 Crisis has been resolved.
- 5.2 Crisis has been dismissed.

Review Crisis Sequence Diagram



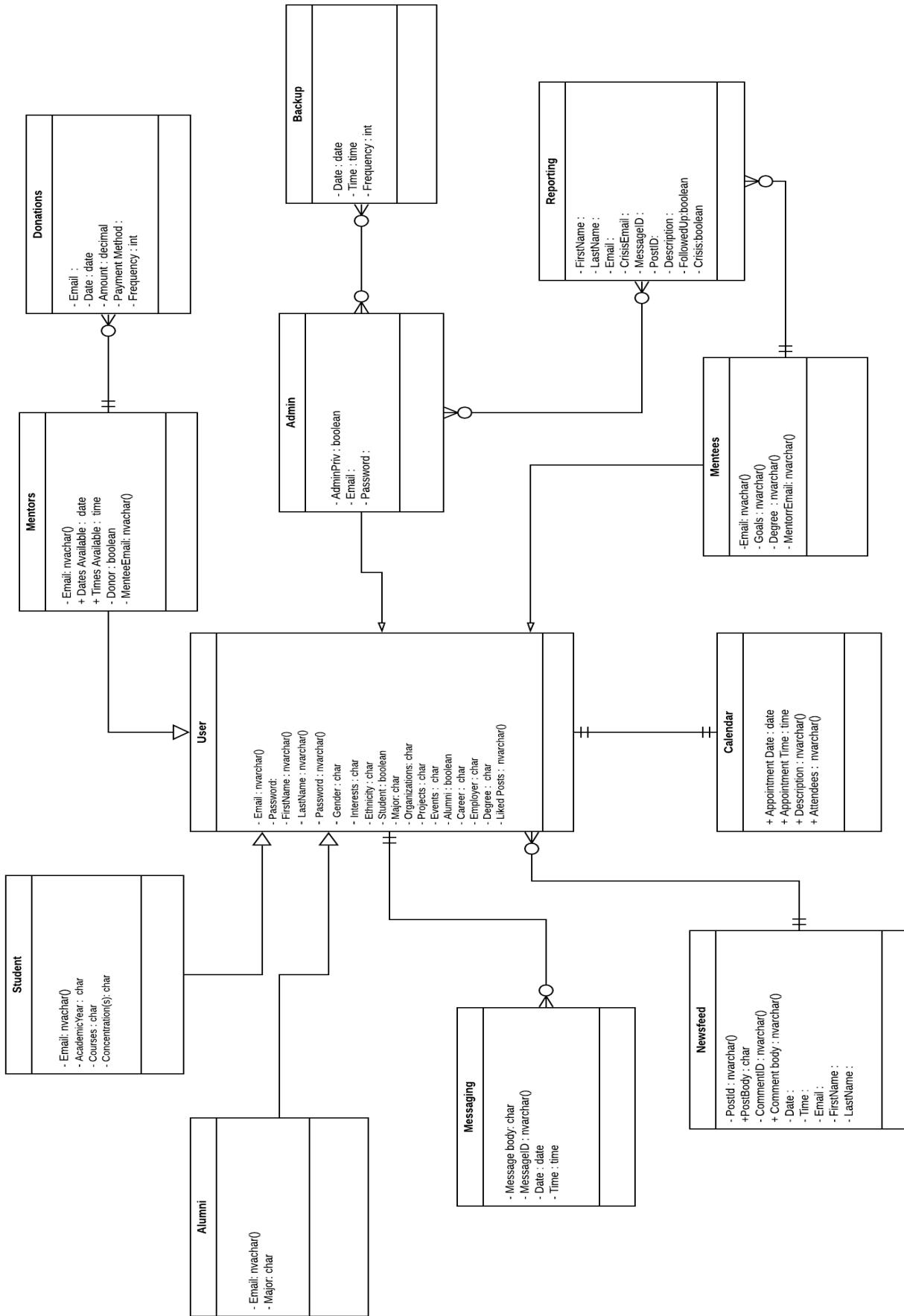
Class Diagram

The Class Diagram below depicts the relationship of certain classes and their associated attributes & methods. To use an analogy, a class is like a blueprint to a house, while an object is like a house created from that blueprint. An object is instantiated (created) from a class's attributes which define the state of that object. When a user registers into the system, they specify attributes unique to themselves, such as their name, email, gender, ethnicity, etc. Once they submit their registration, an instance of the User class is created. Each use case that we've identified is what we used to create this class diagram. Every verb in the workflow of a use case represents a method of a class. Each noun in the workflow of a use case represents either an attribute of a class or the class itself. For instance, in our Create Back use case, the date, time and frequency are all stored attributes while the option to select a frequency is a method.



Entity Relationship Diagram (ERD)

This diagram on the following page shows the relationships between the data storing classes in the mentoring system. All of the classes in some way relate back to the user class. The ERD provides information related to how each class interacts with the main user class, as well as other classes around it.



Data Definitions

These are the data descriptions for each of the data storage classes. The classes we have included are user, mentee, mentor, messaging, newsfeed, calendar, donations, and backup. These keep track of the key, name, description, type, and size of each class.

User						Estimated Storage		
Key	Name	Description	Type	Size	Fields	Average Size		
PK, FK	Email Address	User's email address, used as the username for login	mvchar	30	Email Address	18		
	First Name	User's first name	nvarchar	25	First Name	8		
	Last Name	User's last name	nvarchar	25	Last Name	8		
	Password	Login password, must be unique and have at least 1 uppercase letter	nvarchar	25	Password	10		
	Gender	Male, Female, or Prefer not to answer (checkbox)	char		Gender	1		
	Interests	Can include hobbies, extracurriculars, events in a bio form	char		Interests	100		
	Classification:	Underclassman, upperclassman, alumni, or administrator	char		Classification	1		
	Organization(s):	volunteer opportunities/ clubs that the students are involved in	char		Organization(s)	16		
	Projects:	activities participated in in clubs or course	char		Projects	16		
	Events:	events put on by the COB or companies in Louisville	char		Events	16		
FK	Liked Posts	Post ID of liked newsfeed posts	nvarchar	16	Liked Posts	16		

Student				Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Fields</u>	<u>Average Size</u>
PK, FK	Email	Students Email Address	nvachar		Email Addre	18
	Academic Year	Dropdown with options	char		Academic Y	8
	Concentration(s):	Dropdown MultiSelect box	char		Concentrati	8
	Courses:	Dropdown MultiSelect box	char		Courses	100

Alumni					Estimated Storage	
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Fields</u>	<u>Average Size</u>
PK, FK	Email	Alumni's Email Address	nvachar		Email Addre	18
	Career:	job title	char		Career	8
	Employer:	place of employment	char		Employer	8
	Degree:	Major and specialization, year	char		Degree	8

Mentee				Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Field</u>	<u>Average Size</u>
PK, FK	Email Address	User's email address, used as the username for mychar	mychar	30	Email Address	18
	Goals	Career goals, used for mentor matching	nvarchar	150	Goals	
	Degree	Degree/specialization being pursued	nvarchar	30	Degree	
FK	Mentor Email	Email of mentor they are paired with	nvarchar	16	Mentor Email	

Mentor				Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Field</u>	<u>Average Size</u>
PK, FK	Email Address	User's email address, used as the username for login	varchar	30	Email Address	18
Career		Alumni enter job title; Upperclassmen enter career aspirations	varchar	30	Career	
Degree		Alumni enters the degree they have; Upperclassmen enter degree/specialization working towards	varchar	30	Degree	
Dates Available		Related to calendar, what availability they have to meet with their mentee	date		Dates Available	4
Times Available		Related to calendar, what availability they have to meet with their mentee	time		Times Available	4
FK	Mentee Email	Email of their mentee	varchar	16	Mentee Email	

Backup				Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Fields</u>	<u>Average Size</u>
PK	Date	Date of backup	date	4		Date
	Time	Time of backup	time	4		Time
	Frequency	How often the backup is run	int	2	Frequency	4

Calendar				Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Fields</u>	<u>Average Size</u>
	Appointment Date	Day the appointment is scheduled to take place	date	4	Appointment Date	4
	Appointment Time	Scheduled time of appointment	time	4	Appointment Time	4
	Description	Purpose of appointment	nvarchar	30	Description	
FK	Attendees	The UserID of those scheduled to attend	nvarchar	16	Attendees	

Donations				Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Fields</u>	<u>Average Size</u>
PK, FK	Email Address	User's email address, used as the user's primary key	varchar	30	Email Address	18
	Date	Date donation is given	date	4	Date	4
	Amount	Amount given per donation	decimal		Amount	1
	Frequency	How often donation is given	int		Frequency	1

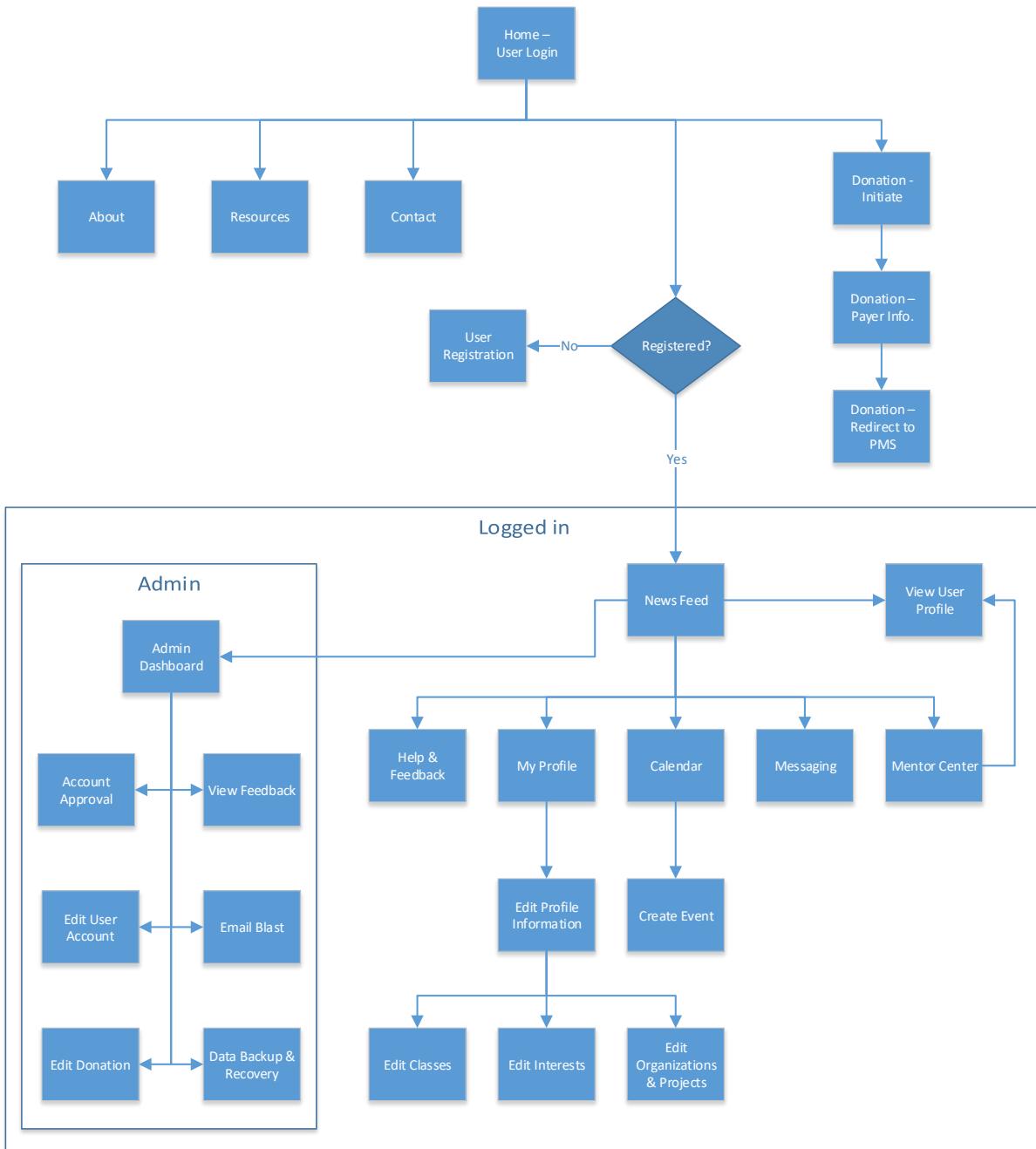
Messaging					Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>	<u>Fields</u>	<u>Average Size</u>	
FK	Sender Email	Email of sender of message	nvarchar	16	Sender User ID		
FK	Receiver Email	Email of receiver of message	nvarchar	16	Receiver User ID		
	Message Body	Information sent to another user *	char				
PK	MessageID	Unique string assigned to each message	nvarchar	16			
	Date	Date the message was sent	date	4	Date		
	Time	Time message was sent	time	4	Time		

Newsfeed						Estimated Storage		
<u>Key</u>	<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Size</u>		<u>Fields</u>	<u>Average Size</u>	
PK, FK	Email Address	User's email address, used as the username for login	nvarchar	30		Email Address	18	
PK	PostID	Unique string assigned to each post made to the newsfeed	nvarchar	16		PostID	16	
	Post Body	Information displayed in post	char			Post Body	250	
PK	CommentID	Unique string assigned to each comment made on a newsfeed post	nvarchar	16		CommentID	16	
	Comment Body	Text displayed in the comment	nvarchar	150		Comment Body	75	

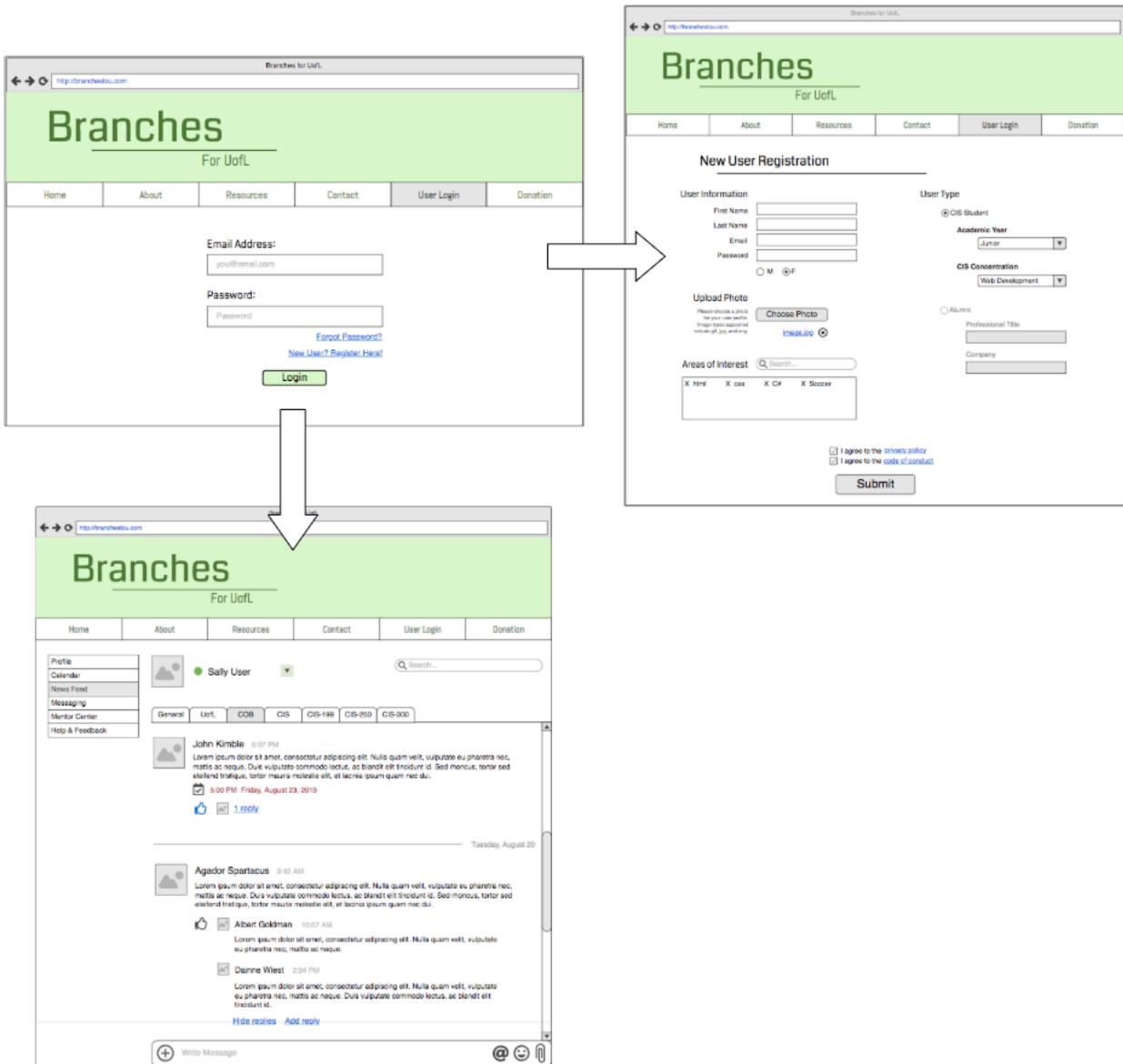
User Navigation Diagram

The following page contains a flow of how a user might navigate the different pages of the website. Non-logged-in actions are separated from logged-in actions, and regular user actions are separated from admin actions. Most pages represented in the diagram can be viewed in the Prototypes document.

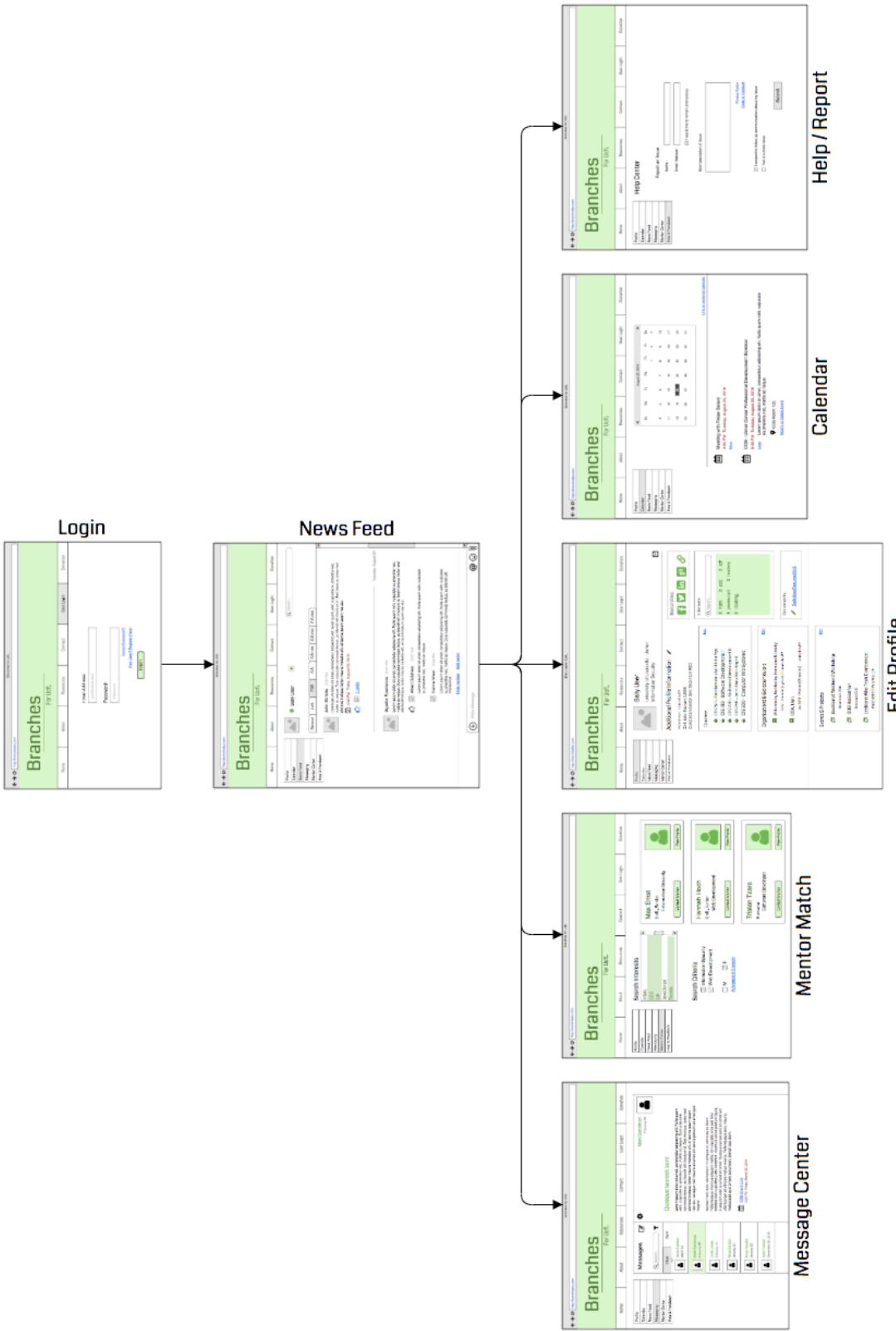
Subsequently, we show several examples of the flow of pages a user will see as they navigate through the system. The first example shows the logic of the page flow when a user either logs into the system successfully from the Home (Login, or Landing) page, versus a user that will need to register with the system. The second example shows the flow of pages a user may navigate through once logged in as a registered user.



User Login Navigation



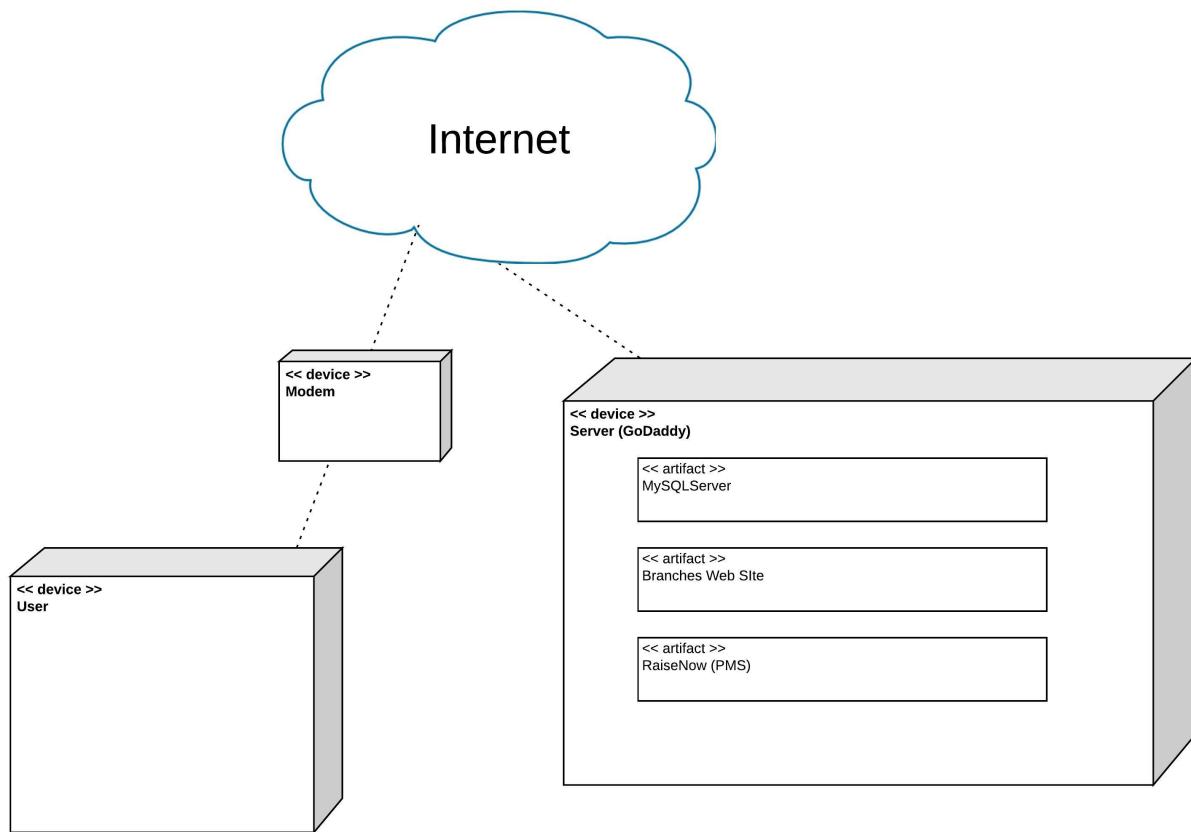
Logged In User Navigation



Physical Architecture Design

Deployment Diagram

This diagram is used to represent the relationships between the hardware components used in the physical infrastructure of an information system. Also represents how software will work in conjunction with the physical infrastructure.



Hardware and Software Specification

These are the hardware and software requirements to support the branches system.

Specification	Client	Web Server	Application Server	Database Server
OS	<ul style="list-style-type: none">WindowsMac OSiOSAndriod			
Software	<ul style="list-style-type: none">Web Browser			<ul style="list-style-type: none">My SQL Server
Hardware	<ul style="list-style-type: none">Processor - 1 Ghz frequency1 GB RAM	<ul style="list-style-type: none">GoDaddy Hosting	<ul style="list-style-type: none">GoDaddy Hosting	<ul style="list-style-type: none">GoDaddy Hosting
Network	<ul style="list-style-type: none">5 Mbps Ethernet / High Speed Wireless	<ul style="list-style-type: none">10 Mbps Ethernet / High Speed Wireless	<ul style="list-style-type: none">5 Mbps Ethernet / High Speed Wireless	<ul style="list-style-type: none">5 Mbps Ethernet / High Speed Wireless

Design Procedures

Type of Requirement	Definition	Examples
Technical Environment	Any special hardware, software, or network requirements needed to utilize system.	Branches will be accessed through Web Browsers such as Internet Explorer, Google Chrome, Firefox.
System Integration	How the system being designed will interact with other systems.	Branches will have a donation portal that directs potential donors to our PMS RaiseNow
Portability	Other environments the system will need to operate in.	Branches must be able to work with multiple OS (Windows, Mac OS, Linux) and should be able to handle requests from mobile devices (iOS, Android). There will not be a mobile site.
Maintainability	The ability of the system to adapt to changes in the business.	There will be updated versions of the system annually.
Speed	Timeframe for the system to perform tasks.	Database will be updated in real-time. Standard http/https timeout settings.
Capacity	Total number of users, peak users at one time, and volume of data expected.	Up to 6000 users, maximum of 400 simultaneous users. Average transmission is around 2 Mb.
Availability	When the system should be available to users, failure rate allowed due to error.	Branches should be available 99% of the time, with the 1% being an annual update/scheduled maintenance.
System Value Estimates	Estimated value of the system and the data it holds.	Branches is not mission critical, outages will have no cost. When the system is down it will make streamlined donation more difficult which could result in a loss of around \$20 per hour.
Access Control	Who can access what data.	Admin will have access to user authentication and any error reports/crisis reports, as well as the ability to view diagnostics.
Encryption and Authentication	Identifies what data will be encrypted and where/when authentication will be needed to access.	Encryption of user data when transmitted to web server, user must be authenticated before login.
Virus Control	Requirements for controlling the spread of viruses.	All files will be virus scanned before being uploaded or linked to a newsfeed post.

Gantt Chart

The Gantt chart on the following pages depicts all the tasks associated with the completion of the Elaboration Specification. Much like previous iterations, this chart lists each task ID number and task name in order of those that take the most precedence.

Branches Prototypes

The following pages show several high-level mockups of some of the pages and forms a user will encounter while using our system. Our selected prototypes represent functions such as registration, admin approval, user login, profile editing from the user view, calendar, news feed, mentor matching, a feedback form, and donation – among others. A brief explanation of the proposed mechanisms within each model follows the prototype. The User Navigation Diagram within this proposal can be referenced to view a flow of the prototype pages throughout the system.

About Page

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home	About	Resources	Contact	User Login	Donation
------	-------	-----------	---------	------------	----------

Welcome to Branches:
A Tool Created by UofL Students
for UofL Students

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna. Aenean velit odio, elementum in tempus ut, vehicula eu diam. Pellentesque rhoncus aliquam mattis. Ut vulputate eros sed felis sodales nec vulputate justo hendrerit. Vivamus varius pretium ligula, a aliquam odio euismod sit amet. Quisque laoreet sem sit amet orci ullamcorper at ultricies metus viverra. Pellentesque arcu mauris, malesuada quis ornare accumsan, blandit sed diam.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna. Aenean velit odio, elementum in tempus ut, vehicula eu diam. Pellentesque rhoncus aliquam mattis. Ut vulputate eros sed felis sodales nec vulputate justo hendrerit. Vivamus varius pretium ligula, a aliquam odio euismod sit amet. Quisque laoreet sem sit amet orci ullamcorper at ultricies metus viverra. Pellentesque arcu mauris, malesuada quis ornare accumsan, blandit sed diam.



One of the few pages a non-user of the system may view is the About page. This page will provide a short narrative describing the origins and purpose of this project. Prospective students or alumni users may get more information about what this system's purpose is, and why they might be a valuable addition to the user population.

Resource Page

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation



Resources

Upcoming Calendar Events

October 22, 2019						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Oct 22, 2019 5:30 pm [CIS Student Meet & Greet](#)
Oct 23, 2019 2:30 pm [CIS Annual Hackathon](#)
Oct 28, 2019 12:30 pm [Ulmer Center Presents: How to Nail an Interview](#)

CIS Resources

[Lorem ipsum hashad isopet pitum asamar na ti](#)
[Lorem ipsum hashad isopet pitum asamar na ti](#)

Learning Tools

[Lorem ipsum hashad isopet pitum asamar na ti](#)
[Lorem ipsum hashad isopet pitum asamar na ti](#)

UofL Links

[UofL School of Business](#)
[Ulmer Career Center](#)

Another page available to non-users is a resource links page, which will provide information such as public calendar events for the College of Business, helpful CIS resources, learning tools available to students, and links to pages on the UofL website.

Contact Page

The screenshot shows a web browser window with the URL <http://brancheslou.com> in the address bar. The page title is "Branches for UofL". The main content area has a green header with the word "Branches" in large blue letters and "For UofL" below it. Below the header is a navigation menu with links for Home, About, Resources, Contact, User Login, and Donation. The main section is titled "Contact" and contains four input fields: Name, Email Address, Phone Number, and a larger Message field for a multi-line message. A "Submit" button is located below the message field. At the bottom of the contact form, there are three blue hyperlinks: "FAQ", "Privacy Policy", and "Code of Conduct".

Branches for UofL

<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

Contact

Name:

Email Address:

Phone Number:

Message:

[FAQ](#)
[Privacy Policy](#)
[Code of Conduct](#)

Non-users of the system may use the Contact page to submit questions and information that will be accessible by our System Admin. All fields are required. A visitor of the page may easily view an FAQ, the system's Privacy Policy, and the Code of Conduct from links below the form, which may provide an answer to their question. System Admin may respond directly to inquiries using the visitor's provided contact information.

User Login

The screenshot shows a web browser window with the URL <http://brancheslou.com> in the address bar. The page title is "Branches for UofL". The main content area has a green header with the text "Branches" and "For UofL". Below the header is a navigation menu with links for Home, About, Resources, Contact, User Login (which is highlighted in blue), and Donation. The "User Login" section contains fields for Email Address (containing "you@email.com") and Password, along with links for "Forgot Password?", "New User? Register Here!", and a green "Login" button.

Branches for UofL

<http://brancheslou.com>

Branches

For UofL

Home	About	Resources	Contact	User Login	Donation
------	-------	-----------	---------	------------	----------

Email Address:

Password:

[Forgot Password?](#)

[New User? Register Here!](#)

[Login](#)

The User Login page will serve as the landing page (Home page) for the system. Registered users can log into the system immediately, or New Users can click the Registration link provided in order to be directed to the User Registration Page.

Once a user is approved to use the system, the user may access the User Login page and provide their email address and password on file to access their account. In the event the user has forgotten their login credentials, they may select the “Forgot Password” link and have a verification email sent to their email address that will allow them to reset their password.

User Registration

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

New User Registration

User Information

First Name
Last Name
Email
Password

M F

User Type

CIS Student
Academic Year

CIS Concentration

Upload Photo

Please choose a photo for your user profile. Image types supported include gif, jpg, and png.

Areas of Interest

X html X css X C# X Soccer

I agree to the [privacy policy](#)
 I agree to the [code of conduct](#)

Each new user will be required to provide a first name, last name, email, password, and gender. The user will be required to provide a profile photo in a supported format as part of registering their profile.

The New User Registration form will be responsive to the user's choices. If the user is a student, the options under "Alumni" will be unavailable. A student will be required to provide the number of credit hours they have earned in order to calculate their class standing, which will result in either an underclassman or upperclassman account. The student will be required to specify their CIS

concentration using the drop-down menu. Additional majors or minors are able to be specified after user registration within Edit User Profile prototype addressed on a later page.

If the user is an Alumni, the options under “CIS Student” options will be unavailable, and the text boxes for entering the user’s professional title and employer will become the focus.

In “Areas of Interest” the user will be able to add or delete any specific languages, systems, or hobbies they want to be visible on their profile and used in finding a mentor match. Before submitting their registration request, the user will be required to review and agree to both the privacy policy and code of conduct.

User Authentication

The screenshot shows a web browser window with the URL <http://brancheslou.com> in the address bar. The page title is "Branches for UofL". The main content area has a green header with the text "Branches" and "For UofL". Below the header is a navigation menu with links for Home, About, Resources, Contact, User Login, and Donation. The main content area is titled "New User Registration Request". It displays the following registration information:

First Name:	Jane
Last Name:	Doe
Email:	jadoe01@louisville.edu
Password:	*****
M/F:	F
User Type:	CIS Student
Academic Year:	Junior
Concentration:	Web Developent

Below the registration information are three buttons: "Authorize", "Reject", and a link "Contact User".

Information submitted through the new user registration form will be reviewed by the Admin user and either accepted or rejected, as we want the pool of users to be restricted to legitimate UofL students and professional mentors. Authorization of the user will send a verification link to the user's email address on file, and once clicked, will allow the user to access and begin using the system immediately. Rejection will allow the site administration to either reject outright, or contact the user for more information as needed.

Edit User Profile

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

[Profile](#)
[Calendar](#)
[News Feed](#)
[Messaging](#)
[Mentor Center](#)
[Help & Feedback](#)

 **Sally User**
University of Louisville - Junior
Information Security 

Additional Profile Information 
Hometown: Louisville, KY
Birth date: February 3, 1990
Expected graduation date: December 2020

Courses 
 CIS 150 - Fundamentals of Info Sys
 CIS 199 - Software Development I
 CIS 200 - Software Development II
 CIS 250 - Intro Data/Info Mgmt
 CIS 300 - Computer Info Systems

Organizations & Extracurriculars 
 Volunteer, Kentucky Humane Society
2017 - Present (2 years) | Louisville, KY
 GSA, UofL
Jan 2019 - Present (2 months) | Louisville, KY

Social Links
    

Interests

X html X css X c#
X javascript X hockey
X reading

Documents
 [SallyUserResume2019](#)

Events & Projects 
 JavaScript Weekend Workshop
November 2018
 COB Hackathon
February 2019
 Lesbians Who Tech Conference
March 2019 | Palo Alto, CA

After the user is logged into the system, they may select the Profile section in the navigation menu to view information on their profile. As the information used in registration is only the necessary information to verify that a user may use the system, accessing the Profile section allows the user to add

any additional information they would like available to other users. Additionally, users will have relative control over what information is able to be viewable by other registered users on their profile and what information they simply want as potential matching criteria.

The cog icon at the top of the page allows the user to manipulate the data that is fundamental to their account. They may update their name, class standing, or concentration at UofL as necessary. This area would also allow users to request updates to their account such as moving from Student to Alumni once graduated, or request that they be removed from the Branches system.

A user may elect to add other information to their profile under the Additional Information section. They may elect to make available their hometown, birth date, ethnicity, or expected graduation date, among other information that they may want to use to match with potential mentors.

A Student user can select which courses they've completed within the CIS program. The courses in this section dictate which pages of the News Feed they have access to, which is elaborated on in a later prototype.

The sections of Organizations & Extracurriculars allow a student to list if they are involved in any campus activities, or if they volunteer with any organizations, which may facilitate networking among students with similar interests. Events & Projects allow a user to list any events or workshops they've attended, with the opportunity to attach additional information about the event for other users to view. For example, If a user coordinates an event on campus that other users may add to their own calendars and events, the event may be viewed on the creator's profile.

To the right of the page, the user may link their profile to other social media pages they use. The user can also add or delete interests, which contribute to the mentor-mentee matching criteria. If the user would like to upload documents, such as a current resume, they may do so.

Edit User Profile, Second View

The screenshot displays the 'Edit User Profile, Second View' page from the 'Branches for UofL' website at <http://brancheslou.com>. The main header reads 'Branches For UofL'. Below it, the title 'Branches' is prominently displayed above the subtitle 'For UofL'. A navigation bar includes links for Home, About, Resources, Contact, User Login, and Donation. On the left, a sidebar menu lists Profile, Calendar, News Feed, Messaging, Mentor Center, and Help & Feedback.

The central profile area shows a placeholder image for 'Sally User', the name 'Sally User', and the text 'University of Louisville - Junior Information Security'. To the right of the profile is a gear icon. Below this, the 'Additional Profile Information' section contains the following details:

- Hometown: Louisville, KY
- Birth date: February 3, 1990
- Expected graduation date: December 2020
- Ethnicity: Nepali
- LGBTQAI: Y

On the right side, there are two boxes: 'Social Links' containing icons for Facebook, Twitter, LinkedIn, GitHub, and a link icon, and 'Interests' containing a search bar and a list of hobbies: X html, X css, X c#, X javascript, X hockey, and reading.

The 'Courses' section is expanded, showing a list of enrolled courses with checkboxes. One course, 'CIS 150 - Fundamentals of Info Sys', has an 'Edit' link next to it, which is highlighted with a cursor. The list of courses is as follows:

- CIS 150 - Fundamentals of Info Sys
- CIS 199 - Software Development I
- CIS 200 - Software Development II
- CIS 205 - Info Sys in Organization
- CIS 250 - Intro Data/Info Management
- CIS 300 - Computer Info Systems
- CIS 305 - Data Analysis Decision
- CIS 310 - Database Design
- CIS 320 - Systems Analysis & Design

At the bottom of the page, a note indicates the user is 'Jan 2019 - Present (2 months) | Louisville, KY'.

Users can edit their profile information via the Edit links available in the various profile sections. Clicking a link will result in an in-screen pop up that will allow the user to manipulate the data that is available on their profile. Above, we see what a view of editing the Courses a user is or has been enrolled in, which will affect the information available for view on their profile by other users of the system, as well as the pages they have available on their News Feed.

View User Profile

Branches for UofL
http://brancheslou.com

Branches

For UofL

Home About Resources Contact User Login Donation

Profile Calendar News Feed Messaging Mentor Center Help & Feedback

 **Sally User**
University of Louisville - Junior
Information Security
Expected Graduation: December 2020 

About Sally
Hometown: Louisville, KY
Age: 21
Ethnicity: Nepali

Biography:
I'm a gemini vegetarian, and my best bud is a small chihuahua mix named Bruiser who I rescued last year. I am very involved in my campus Gay-Straight Alliance and volunteer at the local humane society in my spare time.

Ask Me About:
 CIS 150 - Fund. of Info Sys
 CIS 199 - Soft Dev I
 CIS 300 - Comp Info Sys

Social Links
    

Organizations & Extracurriculars
 Volunteer, Kentucky Humane Society
2017 - Present (2 years) | Louisville, KY

 GSA, UofL
Jan 2019 - Present (2 months) | Louisville, KY

Interests
HTML CSS C#
JAVASCRIPT READING
RUNNING

Events & Projects
 JavaScript Weekend Workshop
November 2018

 COB Hackathon
February 2019

Documents
[Check Out My Resume](#)

This prototype shows a view of a user's profile as viewed by another user of the system. A user can click the chat icon in the upper left corner of the profile to send the user a message, and can view any information that the user has elected to have visible on their public profile. Classes that an upperclassman feels confident in serving as a source of information or mentorship are visible in the upper right corner.

Viewing another user's profile is navigated through messages, news feed, calendar events, or from the mentor matching center.

Calendar

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

[Profile](#)
[Calendar](#)
[News Feed](#)
[Messaging](#)
[Mentor Center](#)
[Help & Feedback](#)

◀ August 20, 2019 ▶

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

[Link an external calendar](#)

 Meeting with Rose Selavy
3:00 PM Tuesday, August 20, 2019
[More](#)

 COB - Ulmer Center Professional Development Seminar
5:45 PM Tuesday, August 20, 2019
[Less](#) Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque.
 COB Room 125
[Modify or Delete Event](#)

The user can access their calendar through the navigation menu. By selecting a day on the calendar, the user can view events on that day. Events may be added to a user's calendar by linking an external calendar, or they may add events directly through events posted on the News Feed or sent through the Messaging portal.

News Feed

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

Profile Calendar News Feed Messaging Mentor Center Help & Feedback

Sally User

Search...

General UofL COB CIS CIS-199 CIS-250 CIS-300

John Kimble 6:37 PM

Lore ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui.

5:00 PM Friday, August 23, 2019

1 reply

Tuesday, August 20

Agador Spartacus 9:42 AM

Lore ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui.

Albert Goldman 10:57 AM

Lore ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque.

Dainne Wiest 2:34 PM

Lore ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id.

[Hide replies](#) [Add reply](#)

Write Message

The user can access the Branches news feed through the navigation menu. The user may use the color indicator next to their name to set their availability for messaging within the system.

The types of pages viewable in the News Feed will depend on the type of user, and if the user is a student, which classes they have attended at the university. An alumni user may have much fewer News Feed Pages available to view. The purpose of each class having its own designated page within the news feed is to allow students to post issues they may have having with material specific to that course, and get response from current or former students. Posts will be archived so that issues that tend to be common may continue to be viewed by new students in the course. Students can exchange ideas about projects, labs, or homework in the course in one central place.

Posts made in the News Feed may be viewed by the user in a compact format, with replies hidden, or may be expanded to view the full post including replies or additional attachments such as event invitations or simple files.

A user may make a post in the tab they are viewing by writing a message in the area at the bottom of the page. A user may mention another user, include emojis, or attach files. Clicking the + icon to the left of the text area posts the message.

Messaging Center

The screenshot shows the 'Branches for UofL' website with a green header bar. The header contains the title 'Branches For UofL' and a navigation menu with links for Home, About, Resources, Contact, User Login, and Donation. On the left, there's a sidebar with links for Profile, Calendar, News Feed, Messaging (which is highlighted), Mentor Center, and Help & Feedback. The main content area is titled 'Messages' and shows a list of messages in the inbox. Each message card includes a profile icon, the recipient's name, and the date it was sent. The first message is from 'Jarvis Cocker' on March 12. The second message is from 'Mark Sandman' on February 28, which is highlighted with a green background. Other messages are from 'Janie Jones' (February 12), 'Nina Gordon' (January 25), 'Andy Rourke' (January 22), and 'Todd Trainer' (December 29, 2018). To the right of the inbox, there's a message preview for 'Mark Sandman' from February 28, showing the subject 'Quisque laoreet sem' and a snippet of the message content. There's also a calendar icon and a link to 'COB Event Link'.

Branches for UofL

<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

Profile
Calendar
News Feed
Messaging
Mentor Center
Help & Feedback

Messages

Inbox Sent

Jarvis Cocker March 12

Mark Sandman February 28

Janie Jones February 12

Nina Gordon January 25

Andy Rourke January 22

Todd Trainer December 29, 2018

Mark Sandman
February 28

Quisque laoreet sem

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna.

Aenean velit odio, elementum in tempus ut, vehicula eu diam. Pellentesque rhoncus aliquam mattis. Ut vulputate eros sed felis sodales nec vulputate justo hendrerit. Vivamus varius pretium ligula, a aliquam odio euismod sit amet. Quisque laoreet sem sit amet orci ullamcorper at ultricies metus viverra. Pellentesque arcu mauris, malesuada quis ornare accumsan, blandit sed diam.

COB Event Link
5:00 PM Friday, March 29, 2019

The user can access the Branches messaging center through the navigation menu. Private messages sent between users can be viewed here, with messages in a user's inbox organized in chronological order or filtered into a different view set by the user. A user can select the pencil icon to compose a message, or they may send a message to a specific user by selecting the same icon available on the recipient's profile.

When a message is selected, the contents appear to the right of the page. A user may select the cog icon to view additional actions such as delete, block, forward to email, etc. If the message contains an event invitation, the user may select the calendar icon to add the event to their calendar.

Mentor Match

Branches for UofL
http://brancheslou.com

Branches

For UofL

Home About Resources Contact User Login Donation

Profile
Calendar
News Feed
Messaging
Mentor Center
Help & Feedback

Search Interests

HTML
CSS
C#
JavaScript
Tennis

Max Ernst
UofL, Senior
Information Security

Contact Mentor View Profile

Hannah Hoch
UofL, Junior
Web Development

Contact Mentor View Profile

Tristan Tzara
Humana
Software Developer

Contact Mentor View Profile

I want to see users that match my:

Hometown
 Ethnicity
 Native Spoken Language
 Religion
 LGBTQAI Identification

When searching for and selecting a mentor match, the student will select which of their own interests and other information they would like to include as search criteria. Interests are available in a multiple select list so they may include as many or as few of their own interests as they wish as search criteria. A student can use basic search criteria such as those that match their same major or concentration, and whether they would like to be mentored by a male or female. Additionally, student users may use some of their own profile information to further search for mentors that they will best be able to relate to. Among additional search criteria may be hometown (or home region), ethnicity, native spoken language, religion, and LGBTQAI identification. A user must have this information stored in their profile (not necessarily public facing) in order to use a piece of criteria as a search limiter.

Potential mentors will populate to the right of the screen, allowing the student to view the match's profile, or contact the mentor to set up a first meeting

Help & Feedback

The screenshot shows a web browser window for the website <http://brancheslou.com>. The page title is "Branches for UofL". The main content area has a green header with the text "Branches" and "For UofL". Below the header is a navigation menu with links: Home, About, Resources, Contact, User Login, and Donation. On the left side, there is a sidebar menu with links: Profile, Calendar, News Feed, Messaging, Mentor Center, and Help & Feedback. The main content area is titled "Help Center" and contains a "Report an Issue" form. The form includes fields for Name (text input), Email Address (text input), and a checkbox for "I would like to remain anonymous". There is also a large text area for a "Brief description of issue". At the bottom of the form, there are links to "Privacy Policy" and "Code of Conduct", and two checkboxes: "I consent to follow-up communication about my issue" (checked) and "This is a crisis issue". A "Submit" button is located at the bottom right of the form.

Branches for UofL

http://brancheslou.com

Branches

For UofL

Home About Resources Contact User Login Donation

Profile
Calendar
News Feed
Messaging
Mentor Center
Help & Feedback

Help Center

Report an Issue

Name:

Email Address:

I would like to remain anonymous

Brief description of issue:

[Privacy Policy](#)
[Code of Conduct](#)

I consent to follow-up communication about my issue
 This is a crisis issue

The user can access the Help & Feedback form through the navigation menu. The purpose of the form will be to give the system administration feedback or alert them to an error with the system, or it can be used to report a sensitive crisis issue. The user can provide their contact information, or select that they wish to remain anonymous. A description of the issue is required before submission. Information about the privacy policy and the code of conduct will be available. The user may indicate to administration that they wish to be followed up with about their issue. In the event that the issue being reported is a crisis issue, they may indicate so, which will indicate to administration that it is a priority issue.

Donation

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

Make your tax-deductible gift today!

The UofL CIS department depends on generous donations like yours to purchase equipment, software, and fund professional development that helps keep our department thriving and able to keep up with the fast-growing world of IT. Your gift helps us continue to provide an excellent environment to develop tomorrow's tech professionals!

Please select your gift amount

\$25 \$50 \$100

\$ Other

Yes, I would like to make this a monthly gift

 Secure

Continue to Payment Information

Anyone, whether they are a registered user of the Branches system or not, is able to access the three-step Donation portal by clicking the Donation tab in the main navigation bar. In the first step, the user can select their donation amount, specify if their gift is to be recurring, and then will continue to the second step. Clicking the “Continue to Payment Information” button will bring the user to a second secure page that will collect the following information:

- First Name
- Last Name
- Address
- City
- State/Province
- Postal Code
- Country
- Email Address

This user will then be brought to a third secure page powered by RaiseNow, our chosen payment management system, which will complete the transaction with credit card information.

Review Donation

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

Home About Resources Contact User Login Donation

Profile
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Mentor Center
Help & Feedback
Review Donations

Review Donations

▼ Donor	▼ Amount	▼ Date	▲
John Doe	\$25.00	03/15/2019	▲
Tony Stark	\$1000.00	07/12/2013	▼
Rick Pitino	\$0.15	03/15/2013	▼
Elon Musk	\$25123.00	09/22/2018	▼

[Modify Amount](#) [Refund Amount](#)

In the event that a donor needs to change a donation or stop recurring donations, the Admin user has access to all past donation information. The donor may contact the admin directly through our contact page or through the Help & Feedback link for registered users.

Backup & Recover

Branches for UofL
<http://brancheslou.com>

Branches

For UofL

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Profile
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Review Donations
Back-Up & Recovery

Back-Up & Recovery

Today

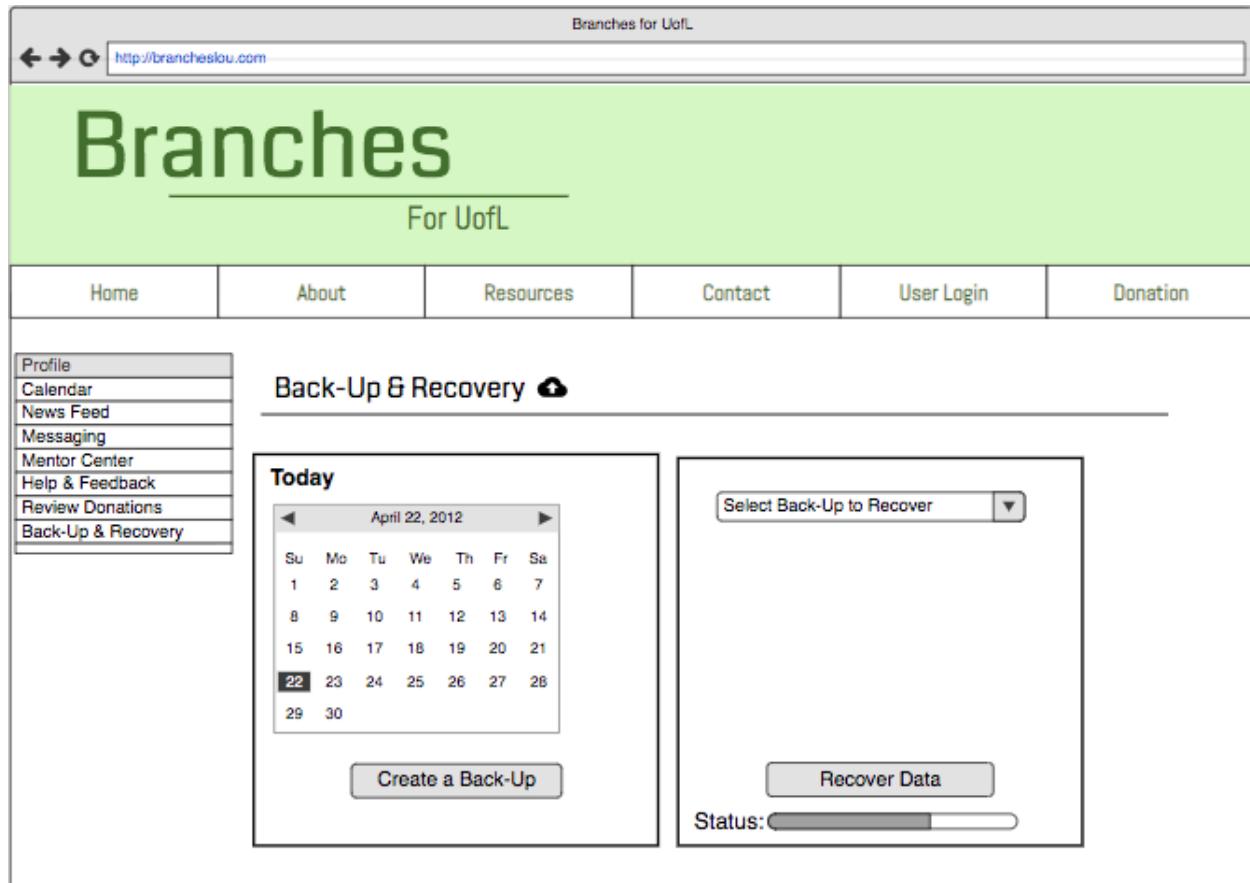
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

[Create a Back-Up](#)

Select Back-Up to Recover 

Status: 

[Recover Data](#)



Although backup will be regularly scheduled as part of site maintenance, the admin has the ability to force backup at a point in time, or recover data from a selected backup date.