Elaboration Spec

Group 4 Zu Ming

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System Requirements

Here are the system requirements for the COBweb. These requirements are features that the system must have to be functional according to our standards. These requirements along with use cases spell out how the system will function in total. These requirements will be shown from high priority to low priority which will demonstrate how vital each requirement is to the function of website.

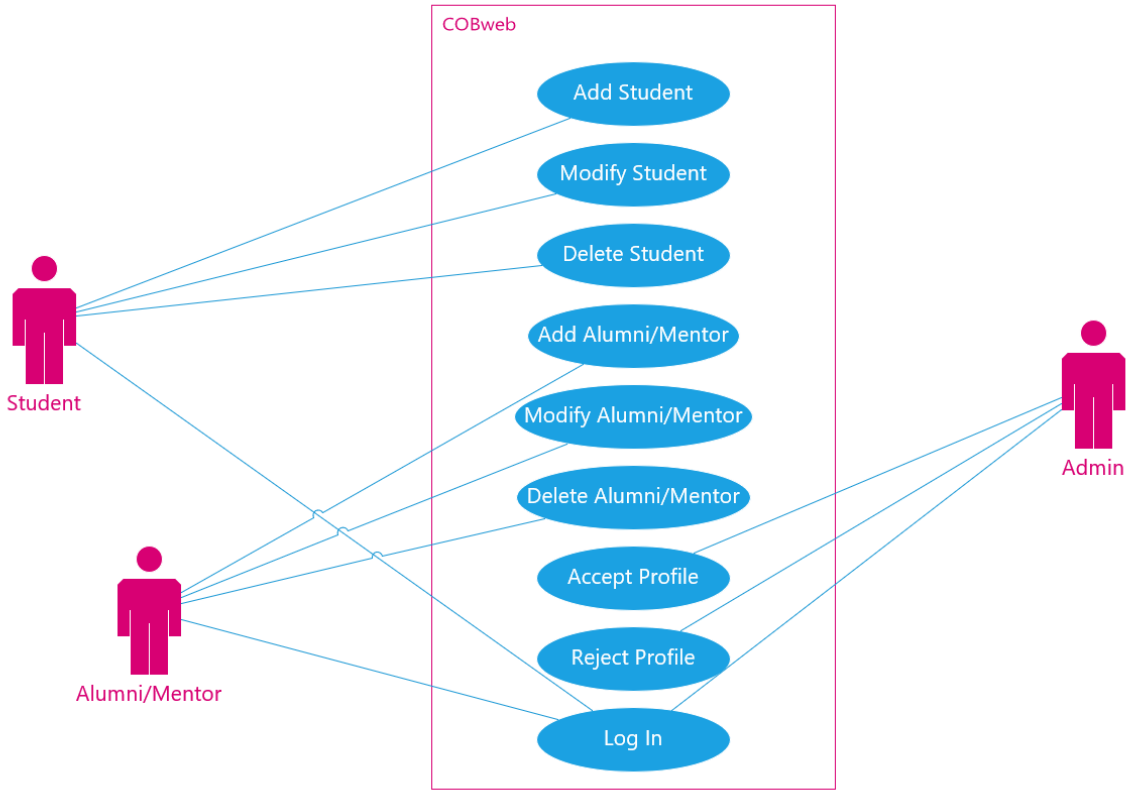
- The System Shall have a landing page which will welcome users to the site.
    - High Priority
- The COBweb shall have a sign-up system that differentiates between students, alumni, and other users.
    - High Priority
- The COBweb shall have a Login system to let people access the site.
    - High Priority
- The COBweb shall have a mentor matching/search system to allow people to connect with others
    - High Priority
- The COBweb shall have a user approval system to ensure all nonstudent users are allowed to be in the system.
    - High Priority
- The COBweb shall have a donation page allowing people that are interested the ability to donate to the CIS program
    - High Priority
- The COBweb shall have a discussion board system that allows users to ask questions and receive answers
    - High Priority
- The COBweb shall have a job board that allows mentors the ability post jobs for the students to apply for.
    - High priority
- The COBweb shall have an announcement board where admins will announce useful information.
    - Medium Priority
- The COBweb shall have a message board that allows users to contact admins to ask questions about the site or state concerns.
    - Medium Priority

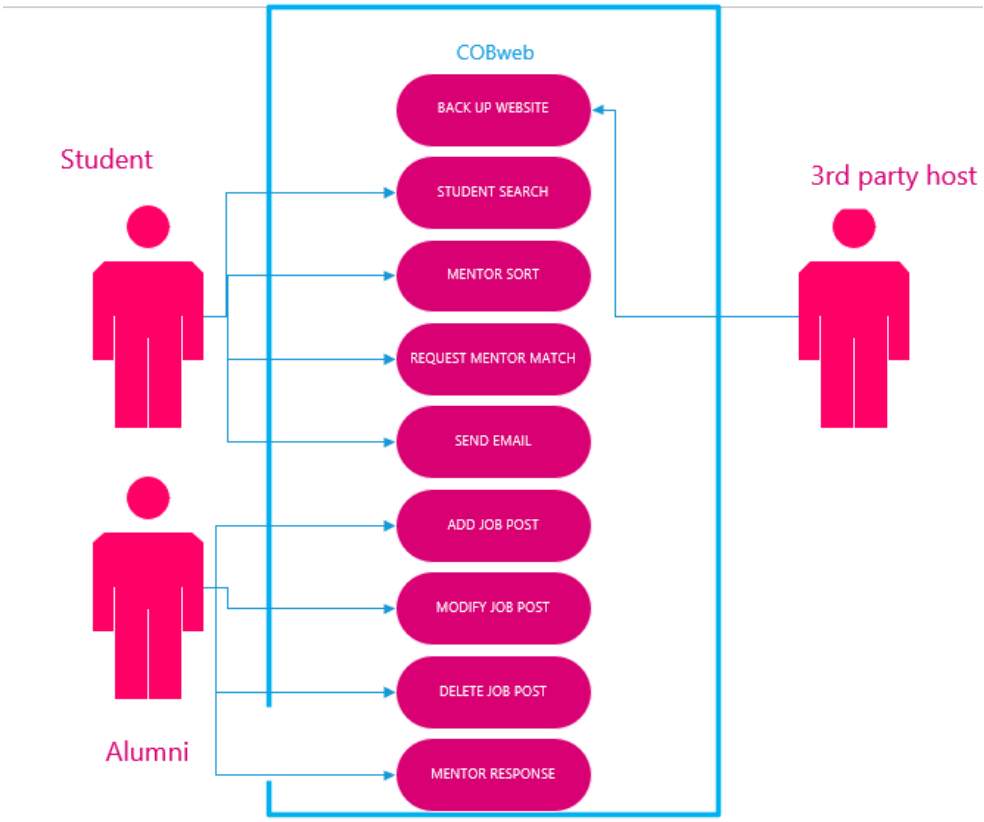
- The COBweb shall have an admin control panel that will allow admins to carry out their requirements in the site.
    - Medium Priority

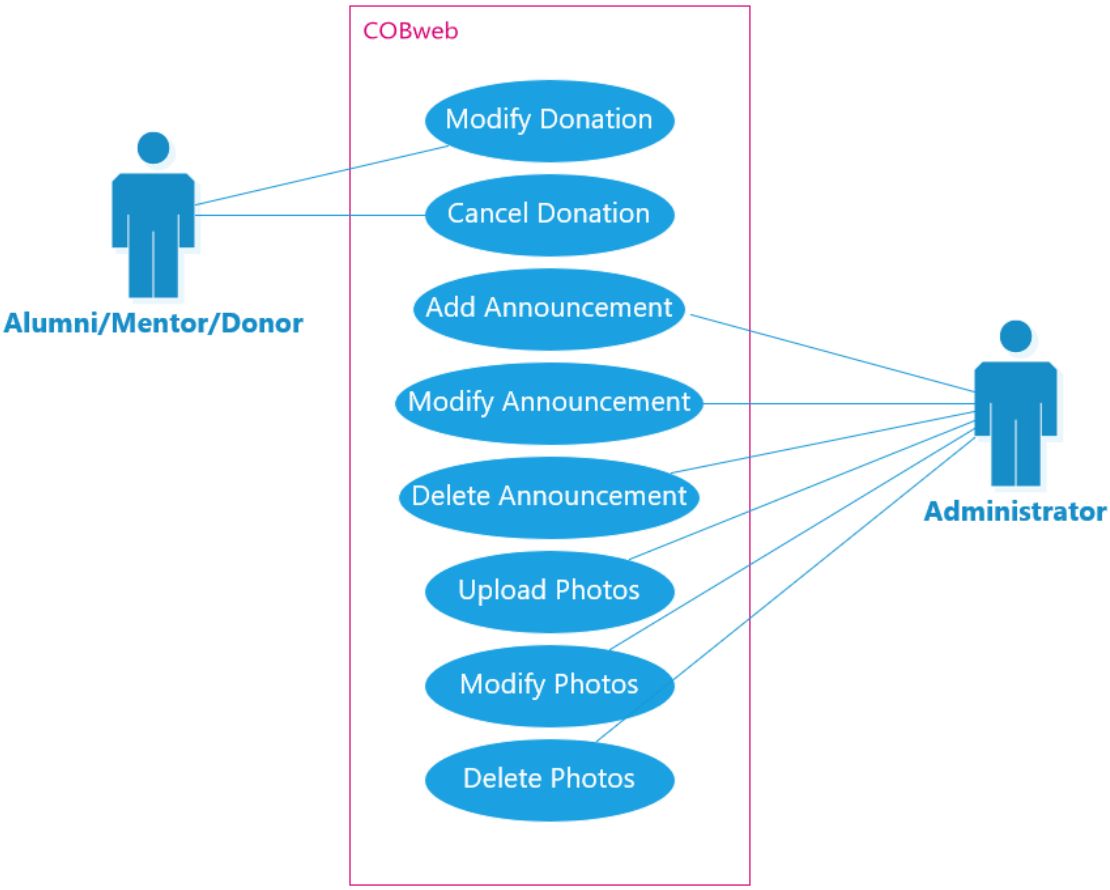
- The COBweb shall have a calendar that will mark dates for important events.
    - Medium Priority
- The COBweb shall give Admins the ability to send out email blasts to users.
    - Medium Priority
- The COBweb shall have a method to create backups of the site.
    - Medium Priority
- The COBweb shall have a photo carousel that adds flavor to the landing page.
    - Low Priority

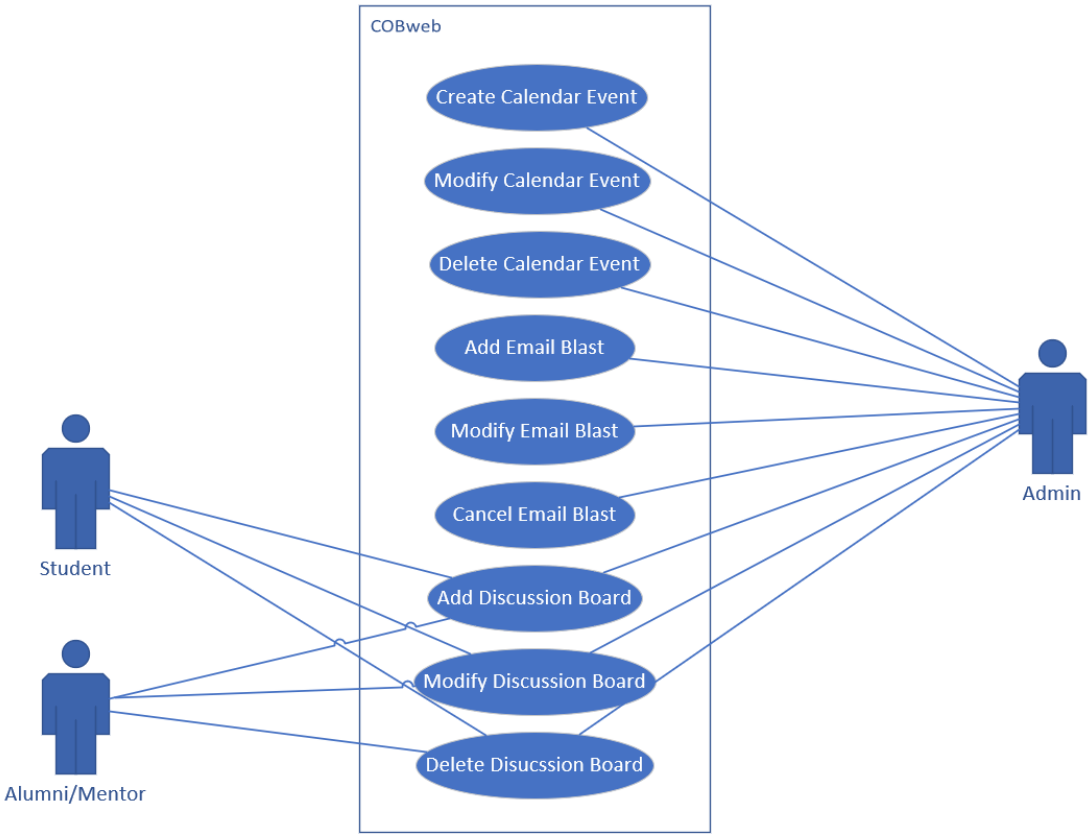
Use Case Diagrams

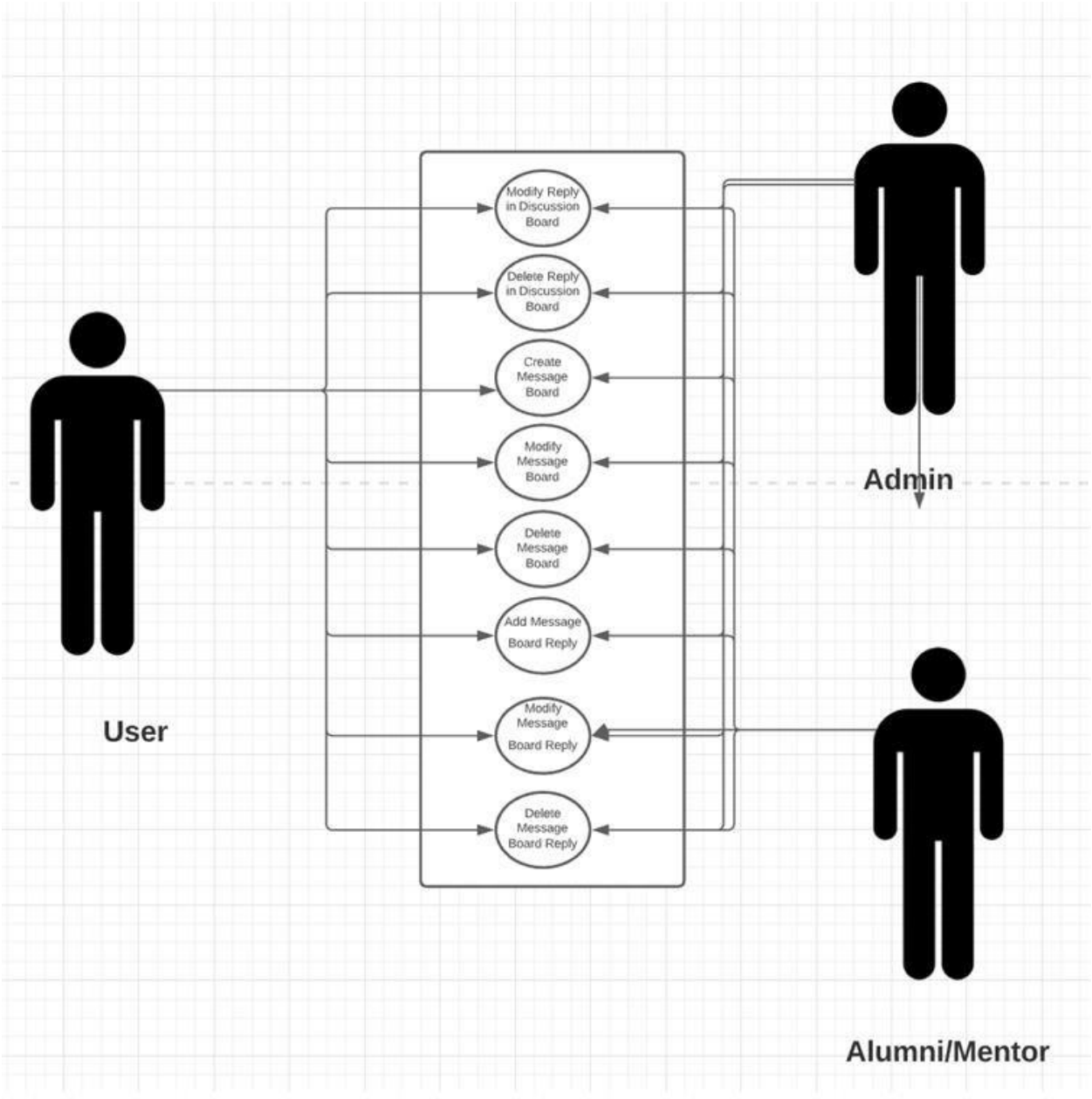
These use case diagrams are designed to show the relationship between use cases, the system, and the actors that perform the use case. For Example, a student is the only class that is able to interact with the use case “Create Student”, but every single actor can do the use case of “Create Discussion Board”


COBweb
Add Student
Modify Student
Delete Student
Add Alumni/Mentor
Modify Alumni/Mentor
Delete Alumni/Mentor
Accept Profile
Reject Profile
Log In
Student
Alumni/Mentor
Admin


COBweb
BACK UP WEBSITE
STUDENT SEARCH
MENTOR SORT
REQUEST MENTOR MATCH
SEND EMAIL
ADD JOB POST
MODIFY JOB POST
DELETE JOB POST
MENTOR RESPONSE
Student
Alumni
3rd party host

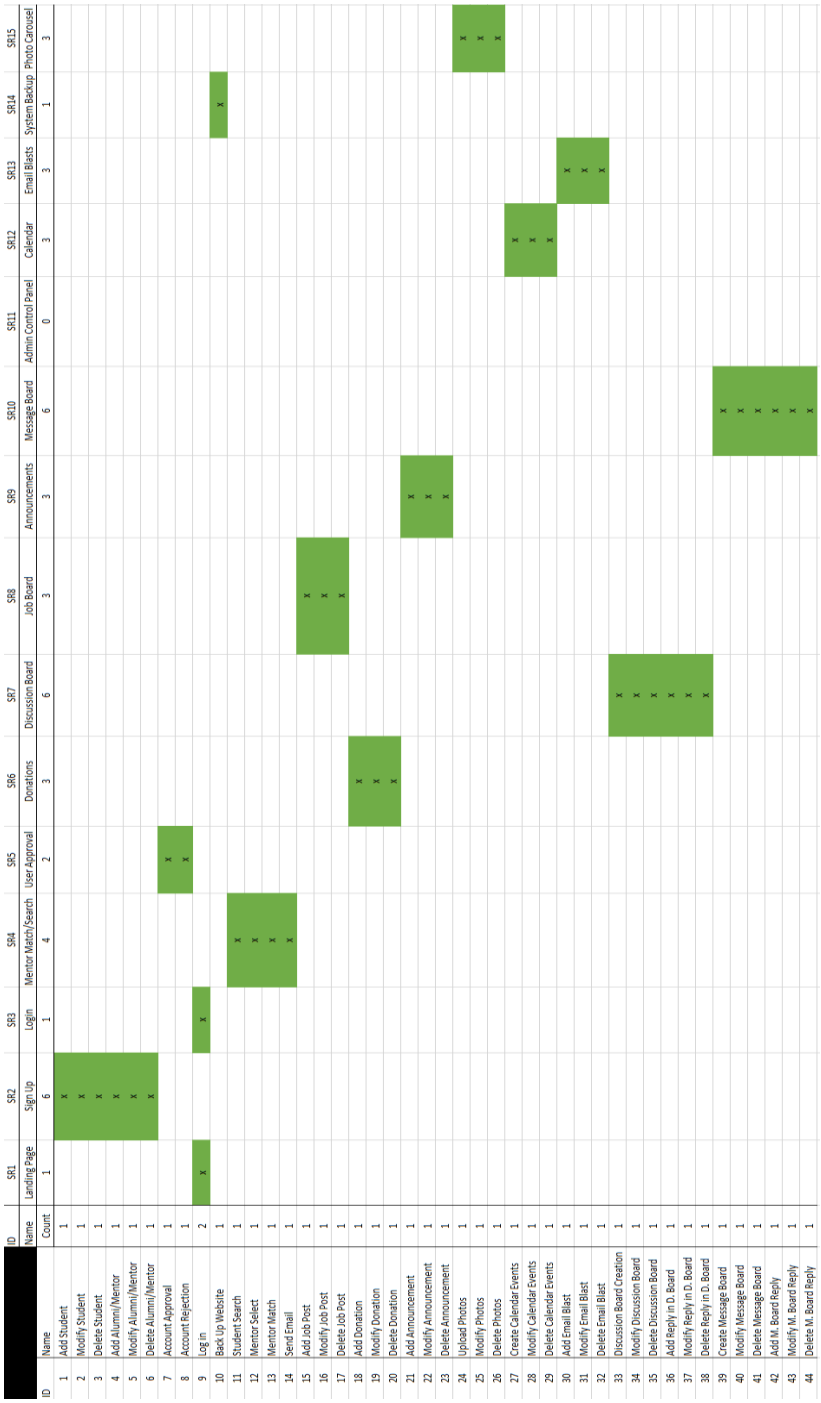

COBweb
Modify Donation
Cancel Donation
Add Announcement
Modify Announcement
Delete Announcement
Upload Photos
Modify Photos
Delete Photos
Alumni/Mentor/Donor
Administrator


COBweb
Create Calendar Event
Modify Calendar Event
Delete Calendar Event
Add Email Blast
Modify Email Blast
Cancel Email Blast
Add Discussion Board
Modify Discussion Board
Delete Disucssion Board
Student
Alumni/Mentor
Admin


Modify Reply in Discussion Board
Delete Reply in Discussion Board
Create Message Board
Modify Message Board
Delete Message Board
Add Message Board Reply
Modify Message Board Reply
Delete Message Board Reply
User
Admin
Alumni/Mentor

Trace Matrix

The Purpose of the trace matrix is to ensure that system requirements and use cases match each other. Having a system requirement that is never used demonstrates a useless requirement and a use case that isn't represented by a use case in some capacity shows a missing requirement that should be added promptly. Since these system requirements are high level the comparison might not be extremely direct, but there needs to be a connection.



ID	Name	Count	SR1 Landing Page 1	SR2 Sign Up 6	SR3 Login 1	SR4 Mentor Match/Search 4	SR5 User Approval 2	SR6 Donations 3	SR7 Discussion Board 6	SR8 Job Board 3	SR9 Announcements 3	SR10 Message Board 6	SR11 Admin Control Panel 0	SR12 Calendar 3	SR13 Email Blasts 3	SR14 System Backup 1	SR15 Photo Carousel 3
1	Add Student	1		x													
2	Modify Student	1		x													
3	Delete Student	1		x													
4	Add Alumni/Mentor	1		x													
5	Modify Alumni/Mentor	1		x													
6	Delete Alumni/Mentor	1		x													
7	Account Approval	1					x										
8	Account Rejection	1					x										
9	Log In	2	x		x												
10	Back Up Website	1														x	
11	Student Search	1				x											
12	Mentor Select	1				x											
13	Mentor Match	1				x											
14	Send Email	1				x											
15	Add Job Post	1								x							
16	Modify Job Post	1								x							
17	Delete Job Post	1								x							
18	Add Donation	1						x									
19	Modify Donation	1						x									
20	Delete Donation	1						x									
21	Add Announcement	1									x						
22	Modify Announcement	1									x						
23	Delete Announcement	1									x						
24	Upload Photos	1															x
25	Modify Photos	1															x
26	Delete Photos	1															x
27	Create Calendar Events	1												x			
28	Modify Calendar Events	1												x			
29	Delete Calendar Events	1												x			
30	Add Email Blast	1													x		
31	Modify Email Blast	1													x		
32	Delete Email Blast	1													x		
33	Discussion Board Creation	1							x								
34	Modify Discussion Board	1							x								
35	Delete Discussion Board	1							x								
36	Add Reply in D. Board	1							x								
37	Modify Reply in D. Board	1							x								
38	Delete Reply in D. Board	1							x								
39	Create Message Board	1										x					
40	Modify Message Board	1										x					
41	Delete Message Board	1										x					
42	Add M. Board Reply	1										x					
43	Modify M. Board Reply	1										x					
44	Delete M. Board Reply	1										x					

Use Cases

Bradley Layten uses cases 1-9

Use Case Specification: Add Student

Use-Case Name

Brief Description

The Process for a user to add a student.

Flow of Events

Basic Flow

User selects “Create Account”.
User selects “Student” option.
User presses submit.
User enters First Name.
User enters Last Name.
User enters Louisville Email Address.
User enters CIS concentration/minor.
User chooses underclassmen/upperclassmen.
User enters gender identity.
User enters ethnicity.
User enters preferred mentor type.
User enters preferred username
User enters preferred password
User reenters preferred password.
User selects save.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Must be a UofL student/Have a UofL email address.

Post-conditions

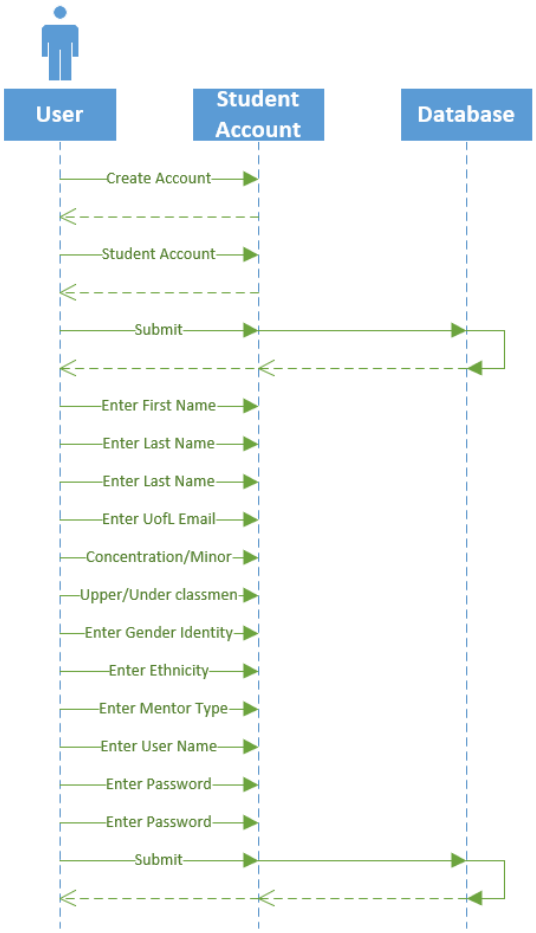
None

Extension Points

None

1.1 Basic Flow

User selects “Create Account”.
User selects “Student” option.
User submits choice.
User enters First Name.
User enters Last Name.
User enters Louisville Email Address.
User enters CIS concentration/minor.
User chooses underclassmen/ upperclassmen.
User enters gender identity.
User enters ethnicity.
User enters preferred mentor type.
User enters preferred username
User enters preferred password
User reenters preferred password.
User submits.



Use Case Specification: Modify Student

Use-Case Name

Brief Description

The Process for a user to modify a student's information.

Flow of Events

Basic Flow

User selects profile option.
User selects edit information.
User enters First Name.
User enters Last Name.
User enters Louisville Email Address.
User enters CIS concentration/minor.
User chooses underclassmen/upperclassmen.
User enters gender identity.
User enters ethnicity.
User enters preferred mentor type.
User enters preferred user name
User enters preferred password
User reenters preferred password.
User selects submit.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Must be a UofL student/Have a UofL email address.

10.2 Must be logged in.

Post-conditions

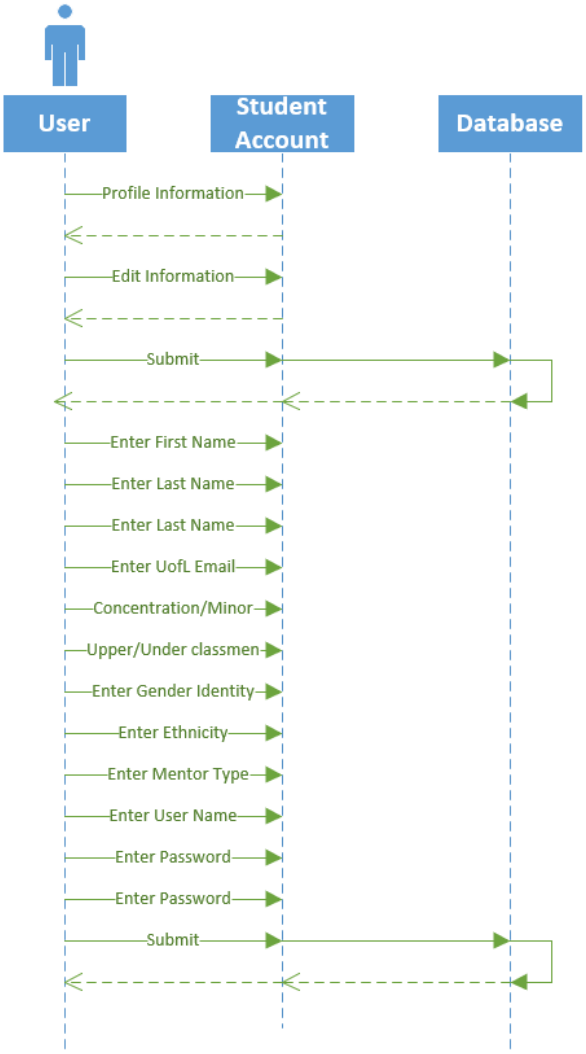
None

Extension Points

None

1.1 Basic Flow

User selects profile option.
User selects edit information.
User submits.
User enters First Name.
User enters Last Name.
User enters Louisville Email Address.
User enters CIS concentration/minor.
User chooses underclassmen/ upperclassmen.
User enters gender identity.
User enters ethnicity.
User enters preferred mentor type.
User enters preferred user name
User enters preferred password
User reenters preferred password.
User selects submit.



Use Case Specification: Delete Student

Use-Case Name

Brief Description

The Process for a user to delete a student's profile from the system.

Flow of Events

Basic Flow

User selects profile option.
User selects edit information.
User selects delete profile.
User confirms deletion.
User is sent to homepage.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Must be a UofL student/Have a UofL email address.

10.2 Must be logged in.

Post-conditions

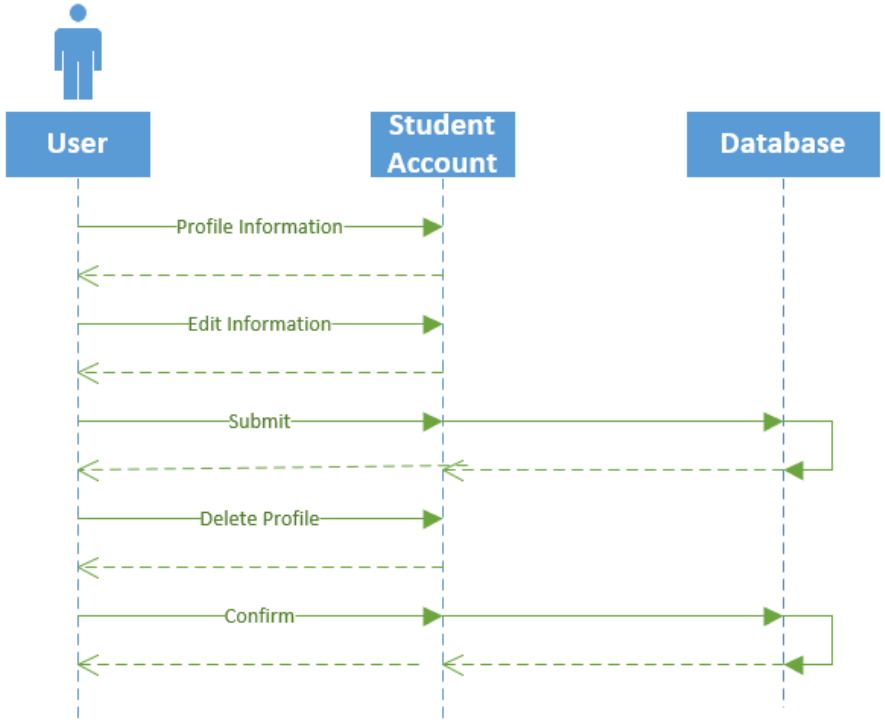
Logged out.
Sent to home page.

Extension Points

None

1.1 Basic Flow

User selects profile option.
User selects edit information.
User selects delete profile.
User confirms deletion.
User is sent to homepage



Use Case Specification: Add Alumni/Mentor

Use-Case Name

Brief Description

The Process for a user to modify a student's information.

Flow of Events

Basic Flow

User selects Create Account
User selects Alumni/Mentor Option.
User Presses Submit
User enters First Name.
User enters Last Name.
User enters Email Address.
User enters former CIS concentration/minor.
User enters career position.
User enters company of employment.
User enters job description.
User enters gender identity.
User enters ethnicity.
User enters preferred user name
User enters preferred password
User reenters preferred password.
User selects submit.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Post-conditions

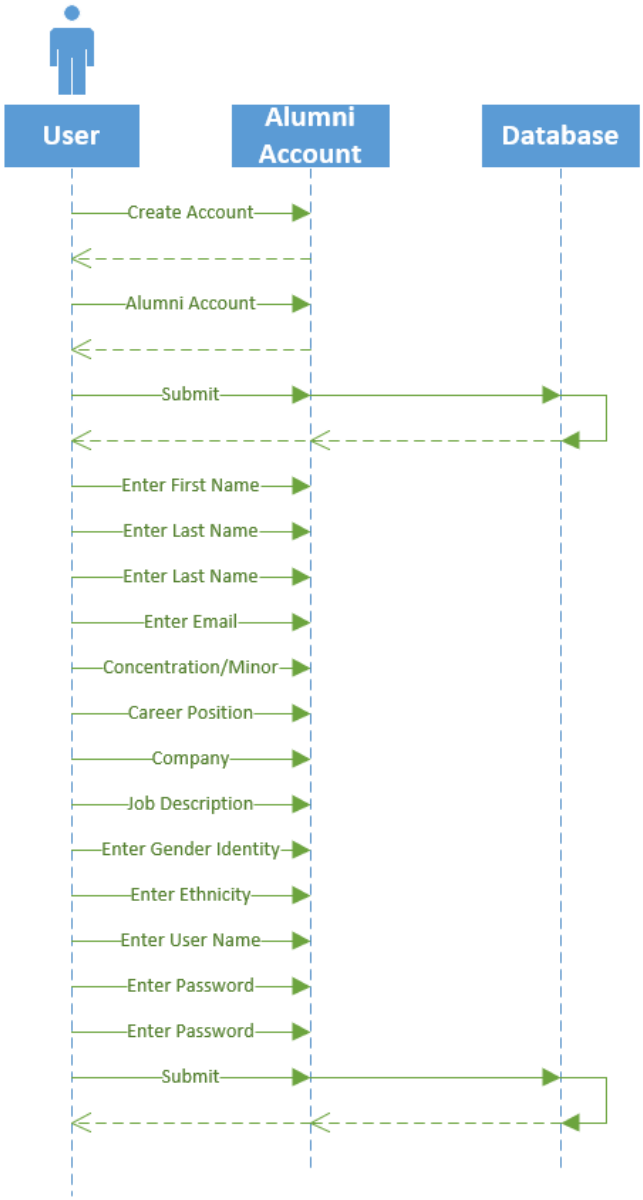
Limited Access to site – must be approved

Extension Points

None

1.1 Basic Flow

User selects Create Account
User selects Alumni/Mentor Option.
User Presses Submit
User enters First Name.
User enters Last Name.
User enters Email Address.
User enters former CIS concentration/ minor.
User enters career position.
User enters company of employment.
User enters job description.
User enters gender identity.
User enters ethnicity.
User enters preferred user name
User enters preferred password
User reenters preferred password.
User selects submit.



Use Case Specification: Modify Alumni/Mentor

Use-Case Name

Brief Description

The Process for a user to modify a student's information.

Flow of Events

Basic Flow

User selects Profile.
User selects "Edit Information".
User enters First Name.
User enters Last Name.
User enters Email Address.
User enters former CIS concentration/minor.
User enters career position.
User enters company of employment.
User enters job description.
User enters gender identity.
User enters ethnicity.
User enters preferred user name
User enters preferred password
User reenters preferred password.
User selects submit.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Must be logged on.

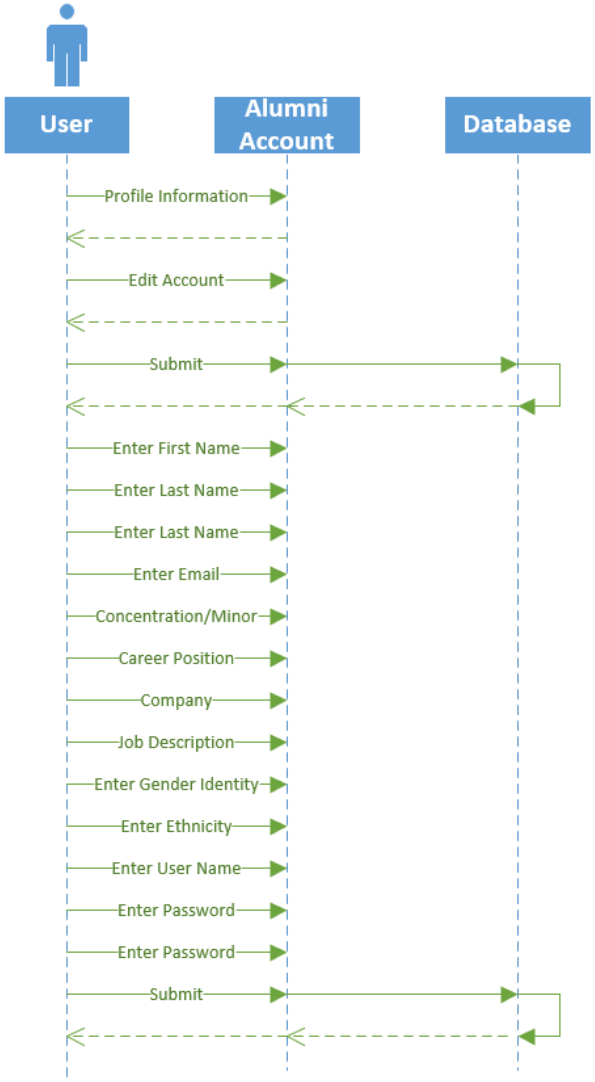
Post-conditions

Extension Points

None

1.1 Basic Flow

User selects Profile.
User selects “Edit Information”.
User enters First Name.
User enters Last Name.
User enters Email Address.
User enters former CIS concentration/ minor.
User enters career position.
User enters company of employment.
User enters job description.
User enters gender identity.
User enters ethnicity.
User enters preferred user name
User enters preferred password
User reenters preferred password.
User selects submit.



Use Case Specification: Delete Alumni/Mentor

Use-Case Name

Brief Description

The Process for a user to delete a student's profile from the system.

Flow of Events

Basic Flow

User selects profile option.
User selects edit information.
User selects delete profile.
User confirms deletion.
User is sent to homepage.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Must be a UofL student/Have a UofL email address.

10.2 Must be logged in.

Post-conditions

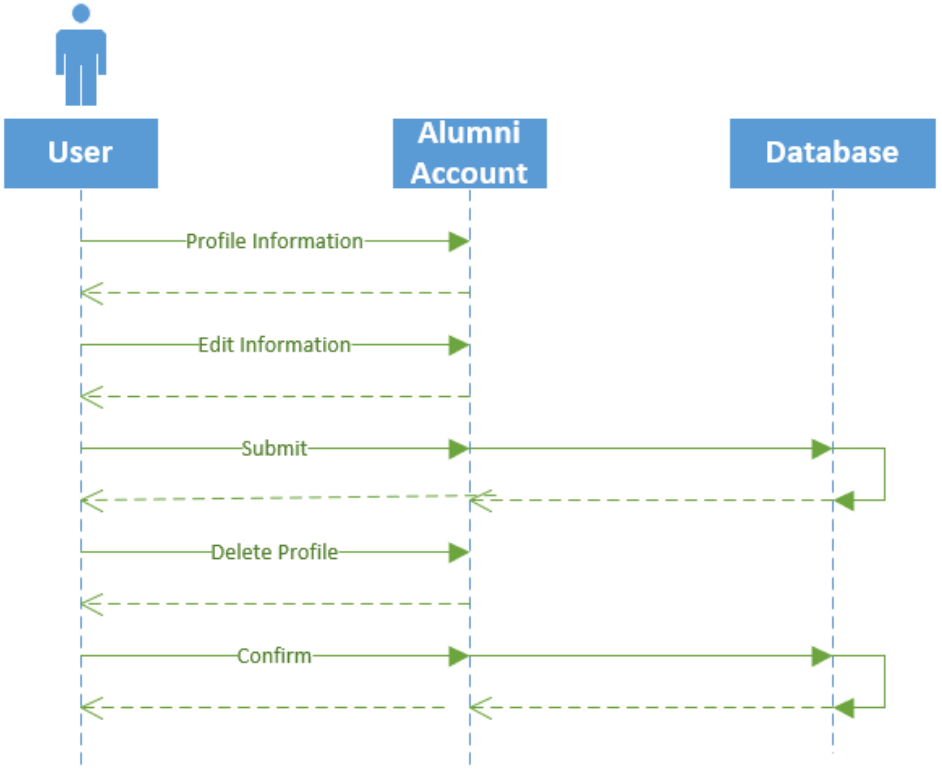
Logged out.
Sent to home page.

Extension Points

None

1.1 Basic Flow

User selects profile option.
User selects edit information.
User selects delete profile.
User confirms deletion.
User is sent to homepage



Use Case Specification: Accept Profile

Use-Case Name

Brief Description

The Process for a user to modify a student's information.

Flow of Events

Basic Flow

User selects Profile.
User selects "Edit Information".
User selects "Delete Account".
User confirms selection.
User is kicked to homepage.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Must be logged on.

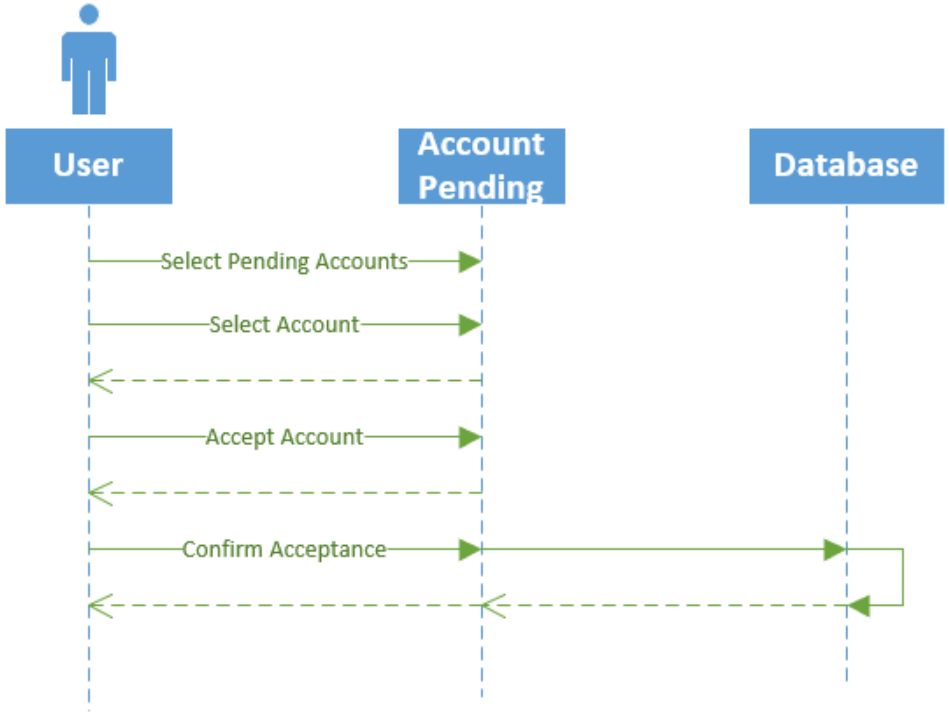
Post-conditions

Extension Points

None

1.1 Basic Flow

User Selects Pending accounts.
User selects account.
User reviews account's information
User Clicks Accept.
User Confirms Acceptance



Use Case Specification: Reject Profile

Use-Case Name

Brief Description

The Process for an administrator to reject an account created by someone that isn't a mentor/alumni.

Flow of Events

Basic Flow

User Selects Pending accounts.
User selects account.
User reviews account's information
User Clicks Reject.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

Must be logged on.

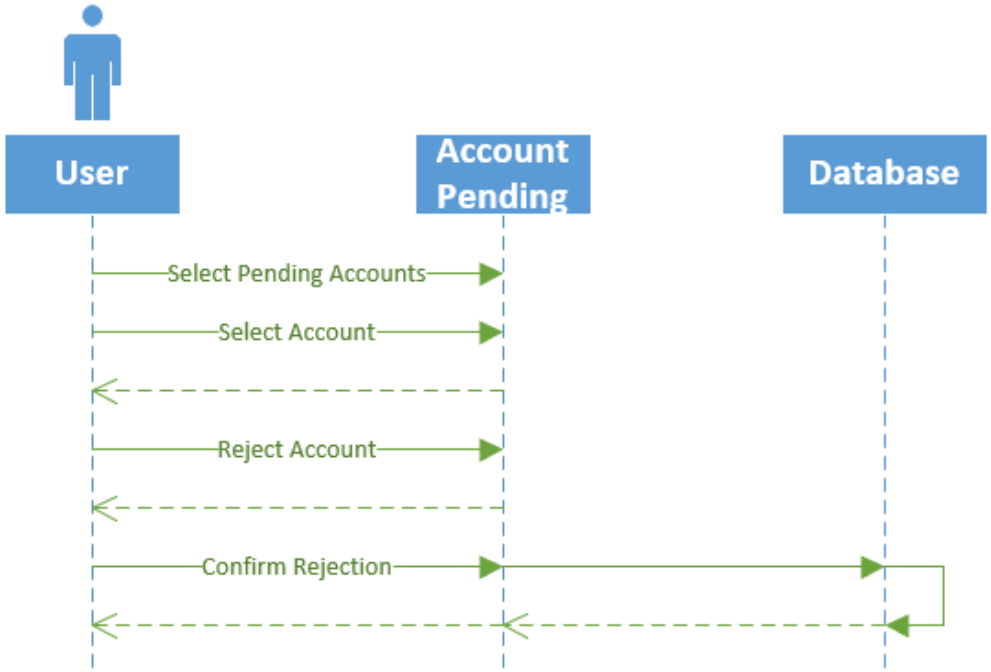
Post-conditions

Extension Points

None

1.1 Basic Flow

User Selects Pending accounts.
User selects account.
User reviews account's information
User Clicks Reject.
User Confirms Rejection



Use Case Specification: Log In

Use-Case Name

Brief Description

The Process for any user to log in to the site.

Flow of Events

Basic Flow

User selects “Log In.”
User enters username.
User enters password.

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

User must have an account.

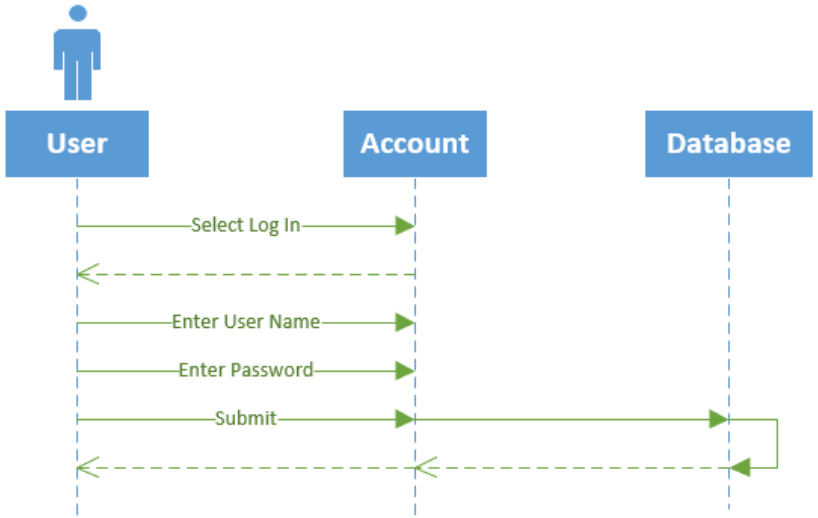
Post-conditions

Extension Points

None

1.1 Basic Flow

User selects “Log In.”
User enters username.
User enters password.
User Submits



Jacob Forcht uses cases 10-18

Use Case Specification: <Back up website>

1. Back up website

2. Brief Description

This use case describes how the 3rd party host will back up the "COBweb" website.

3. Flow of Events

4. Basic Flow

3rd party host receives an alert once a week that triggers the automated backup process
3rd party host automatically backs up website data to the back sections of their server
3rd party host will delete the old back up that is over 30 days old

5. Alternative Flows

none

6. Special Requirements

7. < First Special Requirement >

The 3rd party has a portion of their server for saving backups
3.2
The 3rd party automatically deletes old back ups after 30 days to save space on server

8. Pre-conditions

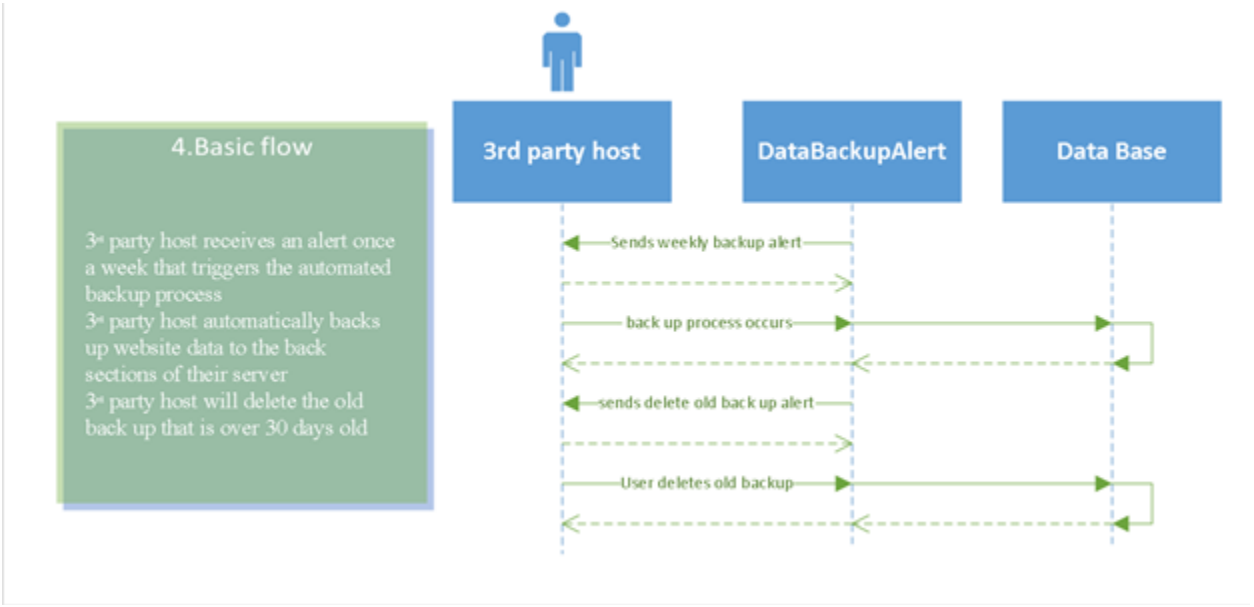
9. < Pre-condition One >

Website must be operational for one week before backing up occurs.

10. Post-conditions

none

11. Extension Points



Use Case Specification: <Student search>

1. Student search

2. Brief Description

The process the CIS student will use to see the list of mentors available for matching.

3. Flow of Events

4. Basic Flow

User will click on the mentor tab at the top of the page
User will click on the search for mentor button on this page
User will open the sort by box on the mentor page
If the User wants to sort for a specific enter
    Execute use case 12 Mentor sort
User will scroll down the list of mentors based on their information entered during the mentor sort flow
If User finds a desired mentor on the list
    Execute use case 13 Request mentor match
    User will click on a desired mentor from the list
    User will enter a message to the mentor
    User will click the request mentorship button sending the message to the mentor
If mentor accepts request
    Execute use case 14 send email
If mentor denies request
    User will request mentor ship with another mentor
If mentor does not respond to request
    User will request mentor ship with another mentor

5. Alternative Flows

none

6. Special Requirements

7. < First Special Requirement >

That the mentors accept or deny the request

8. Pre-conditions

9. < Student has admin approved account >

10. <Mentor has admin approved account>

11. Post-conditions

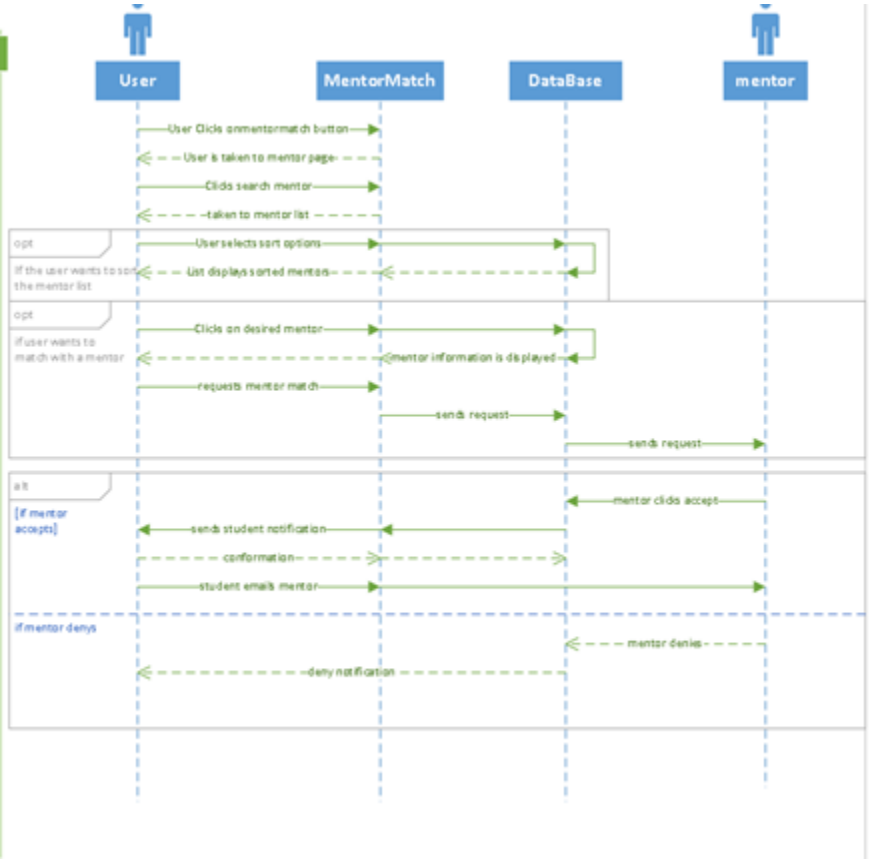
12. < Student interacts with mentor >

13. Extension Points

None

Basic flow

User will click on the mentor tab at the top of the page
User will click on the search for mentor button on this page
User will open the sort by box on the mentor page
If the User wants to sort for a specific enter
Execute use case 12 Mentor sort
User will scroll down the list of mentors based on their information entered during the mentor sort flow
If User finds a desired mentor on the list
Execute use case 13 Request mentor match
User will click on a desired mentor from the list
User will enter a message to the mentor
User will click the request mentorship button sending the message to the mentor
If mentor accepts request
Execute use case 14 send email
If mentor denies request
User will request mentor ship with another mentor
If mentor does not respond to request
User will request mentor ship with another mentor



Use Case Specification: <Mentor sort>

1. Mentor sort

2. Brief Description

What the user will do in order to sort mentors to their preferences.

3. Flow of Events

4. Basic Flow

User has executed use case 11
User clicks on the sort mentors drop down box
User selects their gender preference from the gender drop down box
User selects their preferred user type from the user type drop down box
User selects their preferred ethnicity from the ethnicity drop down box
If user selects alumni as preferred user type
    User selects their preferred job category from the job category drop down box
    User selects preferred company from the drop-down box
If user selects student as preferred user type
    User selects preferred CIS track from drop down box
    User selects preferred mentor's college year from drop down box
User will select the enter button after entering in information into the sort mentors drop down box
User will be greeted with a list of mentors based off of their drop-down box selections

5. Alternative Flows

none

6. Special Requirements

7. < That the student even wants to sort the mentors >

8. Pre-conditions

< User executes use case 11 student search>

10. Post-conditions

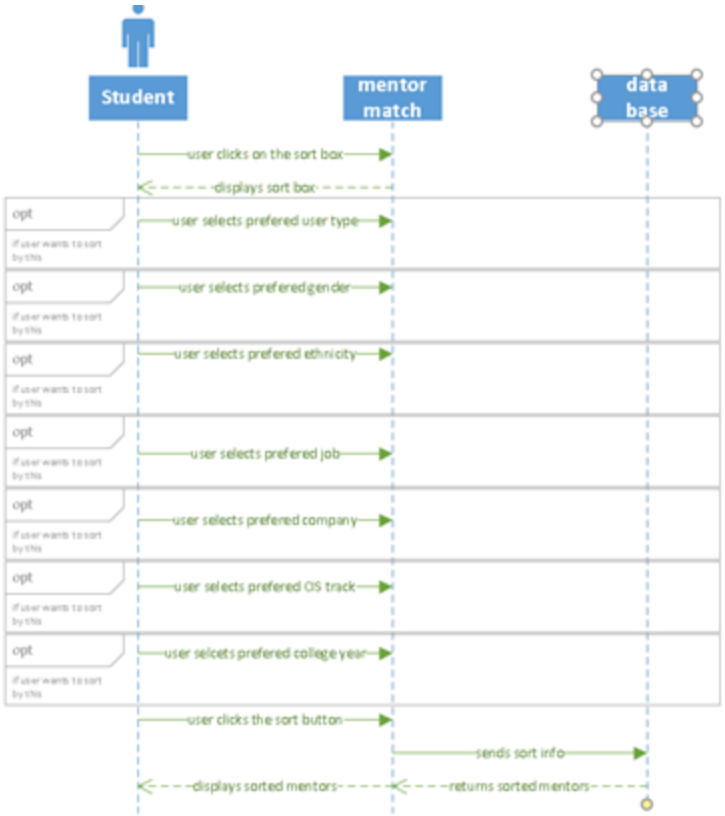
< the mentor list will display matches to the Users preferences>

12. Extension Points

none

Basic flow

User has executed use case 11
User clicks on the sort mentors drop down box
User selects their gender preference from the gender drop down box
User selects their preferred user type from the user type drop down box
User selects their preferred ethnicity from the ethnicity drop down box
If user selects alumni as preferred user type
User selects their preferred job category from the job category drop down box
User selects preferred company from the drop-down box
If user selects student as preferred user type
User selects preferred CIS track from drop down box
User selects preferred mentor's college year from drop down box
User will select the enter button after entering in information into the sort mentors drop down box
User will be greeted with a list of mentors based off of their drop-down box selections



Use Case Specification: <Request mentor match>

1. **Request mentor match**
2. **Brief Description**

The user will select a desired mentor and request to match with them

3. **Flow of Events**
4. **Basic Flow**

User will click on a mentor from the list of mentors
User will click the request match button to let the mentor know they want to message them

5. **Alternative Flows**

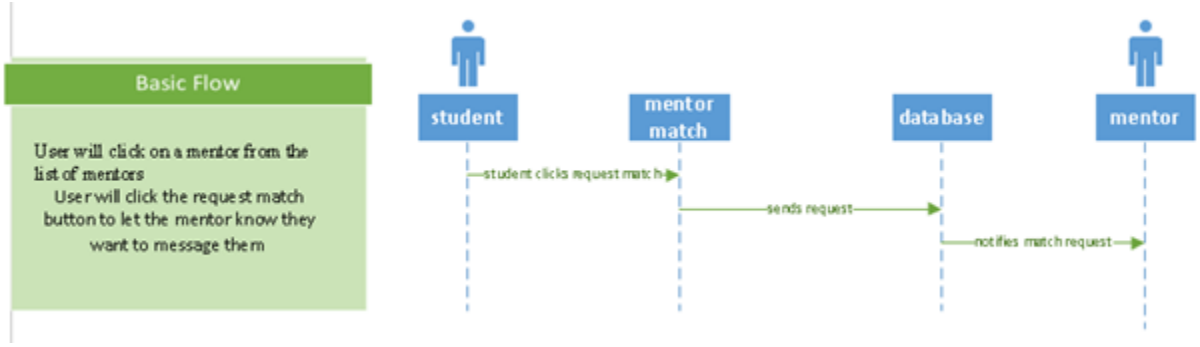
none

6. **Special Requirements**
7. **< Mentor must respond to request >**

8. **Pre-conditions**
9. **< User is on the mentor match page>**
10. **Post-conditions**
11. **<Mentor executes use case 18 “Mentor response”>**
12. **< User is awaiting mentor to match them>**

13. **Extension Points**

None



Use Case Specification: <Send Email>

1. Send Email

2. Brief Description

After Users receives the mentors match approval they will send them an email to communicate with them.

3. Flow of Events

4. Basic Flow

User receives mentor match approved notification
User clicks on profile tab at the top of the website
User clicks on the matches button on the profile page
User clicks on mentor they wish to communicate with
User is greeted with the mentors' email information on this page
User opens the Microsoft outlook email software
Users enters mentor information into Microsoft outlook
User writes an introductory message to the mentor
User presses the send button in outlook.

5. Alternative Flows

6. *< First Alternative Flow >*

none

7. Special Requirements

8. < Mentor has matched with student>

9. Pre-conditions

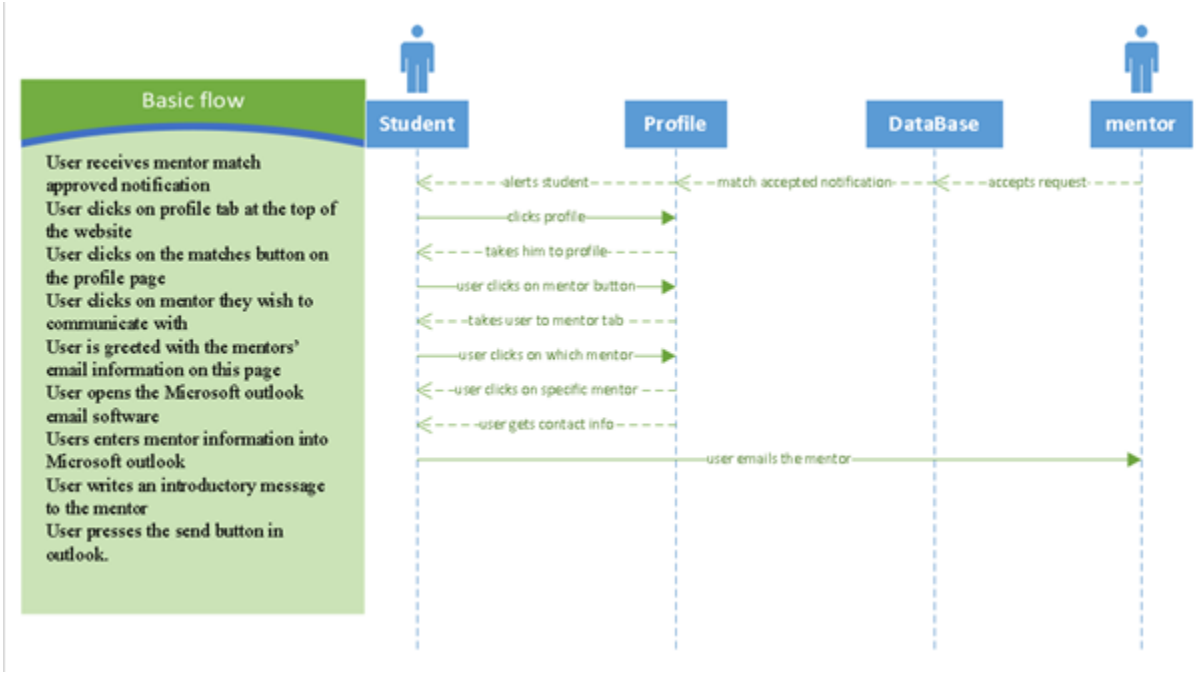
10. < Student has sent match request to mentor >

11. Post-conditions

12. < Student has started their mentorship>

13. Extension Points

None



Use Case Specification: <Add Job Post>

1. Add Job Post

2. Brief Description

The alumni may have job offers that they want to post for current or past cis students this is how they post a job to the job section of the COBweb.

3. Flow of Events

4. Basic Flow

Alumni clicks on the Job tab at the top of the COBweb website
Alumni click the add Job button at the top right of the job page
Alumni enters in the name of the position in the job title text box
Alumni enters a brief description of the job in the job description text box
Alumni enters the qualifications requested in the qualifications text box
Alumni enters the contact information in the contact information text box
Alumni clicks the post job button at the bottom of the page.

5. Alternative Flows

none

6. Special Requirements

7. < That alumni have job posts to put on the job area of the COBweb >

8. Pre-conditions

9. < Alumni account created>

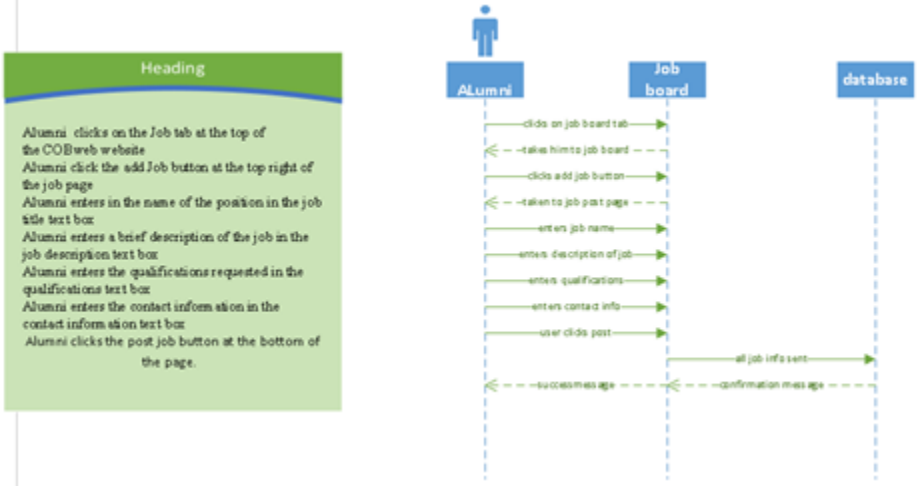
10. < Alumni account approved by admin>

11. Post-conditions

12. < Job post is available for modification or deletion>

13. Extension Points

None.



Use Case Specification: <Modify job post>

1. **Modify job post**
2. **Brief Description**

When an alumni wants to update some part of their job post.

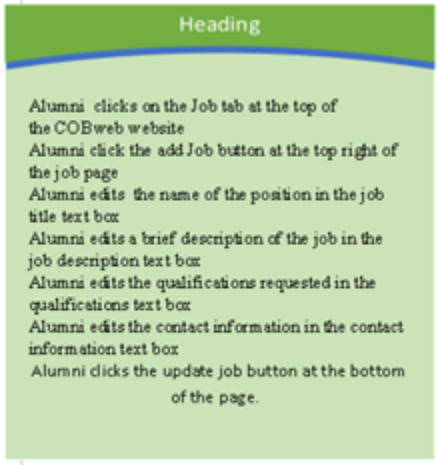
3. **Flow of Events**
4. **Basic Flow**

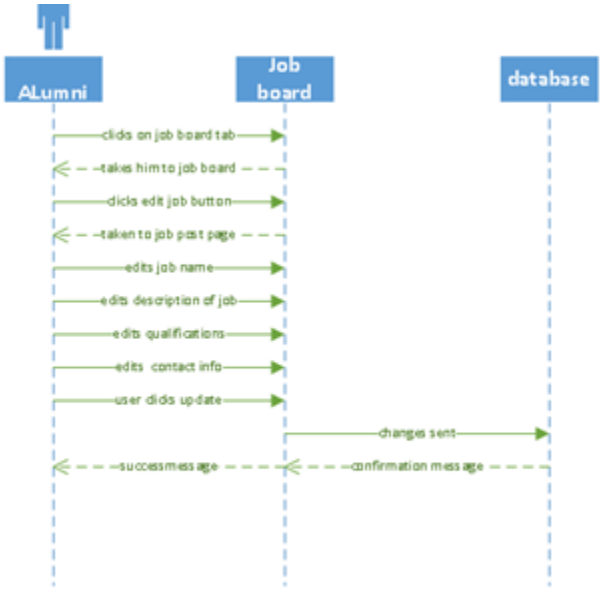
Alumni clicks jobs at the top of the COBweb website
Alumni clicks the sort button at the top of the job posting page
Alumni selects 'show only your job posts' on the sort drop down box
Alumni selects the small edit text under the job post they want to modify
    Execute 2.2.1 Update text box
    If alumni wants to update another text box
    Repeatedly execute 2.2.1 Update text box until Alumni is done modifying the job post
Alumni clicks the update job post button at the bottom of the page

5. **Alternative Flows**
6. *< Update text box >*

Alumni selects desired text box to update
Alumni deletes undesired text from the text box
Alumni enters new text into the text box

7. **Special Requirements**
8. **< Alumni wants to even update a prior job post>**
9. **Pre-conditions**
10. **< Alumni has a made a prior job post>**
11. **Post-conditions**
12. **<Alumni has a job post listed on the job page>**
13. **Extension Points**





Use Case Specification: <Delete job post>

1. Delete job post

2. Brief Description

When an Alumni wants to delete an job post

3. Flow of Events

4. Basic Flow

Alumni clicks on the job tab at the top of the COBweb website
Alumni clicks on the sort drop down box at the top of the job page
Alumni selects the ‘show only my job posts‘ check box
Alumni clicks the delete button found under the job post they wish to delete
Alumni clicks the ‘yes I’m sure’ button on the ‘are you sure’ alert box

5. Alternative Flows

none

6. Special Requirements

7. < That the alumni even wants to delete their post >

8. Pre-conditions

9. < Alumni has made a prior job post >

10. Post-conditions

11. < Alumni has removed one job post from the job section>

12. Extension Points

None

Use Case Specification: <Mentor response>

1. Mentor response

2. Brief Description

The mentor's response to a mentor request.

3. Flow of Events

4. Basic Flow

Mentor clicks the profile tab at the top of the Cobweb website.
Mentor clicks the matches button on the profile page
Mentor clicks the pending matches button on the matches page
Mentor repeatedly executes '2.2.2 Request decision' until all requests are responded to

5. Alternative Flows

6. < *Accept request*>

Alumni clicks on the accept request button.

7. < Deny request>

Alumni clicks on the deny request button.

8. < *Request decision* >

If mentor wants to accept the request:
Mentor executes 2.21 Accept request
If mentor wants to deny the request:
Mentor executes 2.2.1.1 Deny request

9. Special Requirements

10. < Mentor receives a notification that they have a match request >

11. Pre-conditions

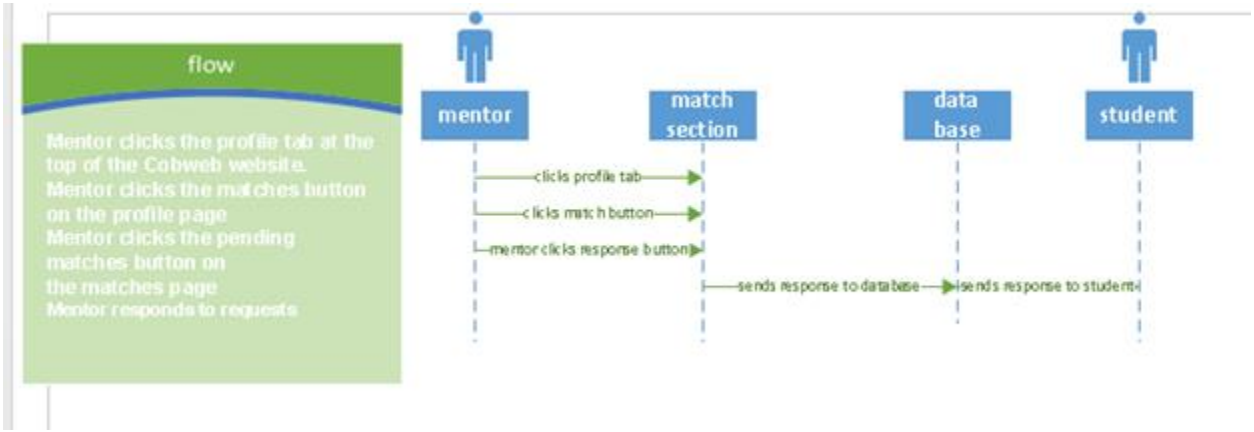
12. < student sends a request to that mentor>

13. Post-conditions

14. < Students match section is updated in regards to the mentors decision>

15. Extension Points

none



Vidhi Desai 19-26 Use Cases

Use Case Specification: <Use-Case 19>

1. Use-Case Name

1.1 Brief Description

The Alumni have a chance to send a donation to the CIS program within the University of Louisville's Business school. Any alumni can donate regardless of which major they choose or degree of choice.

2. Flow of Events

2.1 Basic Flow

The flow of these events will occur are that once they click on the donate now button they will be brought to a screen of how much they would like to donate, there name if they want to include it or leave it anonymous and then an email address and phone number. Then they will have to click next and then they will be brought to the screen of choice of payment credit or cash. Then they will receive a confirmation email and a thank you for donating screen.

2.2 Alternative Flows

2.2.1 < First Alternative Flow >

They could just leave it anonymous and then just pay and never look back.

2.2.1.1 < An Alternative Subflow >

They would have a button for reoccurrence every year, so then they wouldn't have to keep putting there information in, then it will do it automatically.

2.2.2 < Second Alternative Flow >

None

3. Special Requirements

Only Name/Anonymous, Phone Number and email & How much they would like to donate and then card information.

3.1 < First Special Requirement >

Name and Email

4. Pre-conditions

If they are Alumni

4.1 < Pre-condition One >

5. Post-conditions

Sending a confirmation email

5.1 < Post-condition One >

6. Extension Points

none

6.1 <Name of Extension Point>

On the website

Use Case Specification: <Use-Case 20 Cancel Donation>

1. Use-Case Name

1.1 Brief Description

The Alumni have a chance to send a donation to the CIS program within the University of Louisville's Business school. Any alumni can donate regardless of which major they choose or degree of choice.

2. Flow of Events

2.1 Basic Flow

The flow of these events will occur are once they receive that confirmation email, there will be a link below to cancel your payment, to which they will be a pop-up of the website and a cancelation screen will appear. Then they will have to input the same data as before and then in addition will be reason for canceling. Then they will receive the same credit card screen after they click next and then a thank you and conformation email will appear that they got a refund back on their card. It should take 3-5 business days.

2.2 Alternative Flows

2.2.1 < First Alternative Flow >

They could just leave it anonymous or have a name but use the same credit card information they used

< An Alternative Subflow >

They would have a button for reoccurrence every year, so then they wouldn't have to keep putting there information in, then it will do it automatically. They can always change this in their settings where it stops doing it reoccurrence.

2.2.2 < Second Alternative Flow >

None

3. Special Requirements

Only Name/Anonymous, Phone Number and email & How much they donated and then card information.

3.1 < First Special Requirement >

Name and Email

4. Pre-conditions

If they donated anything in the first place

4.1 < Pre-condition One >

5. Post-conditions

Sending a confirmation email after

5.1 < Post-condition One >

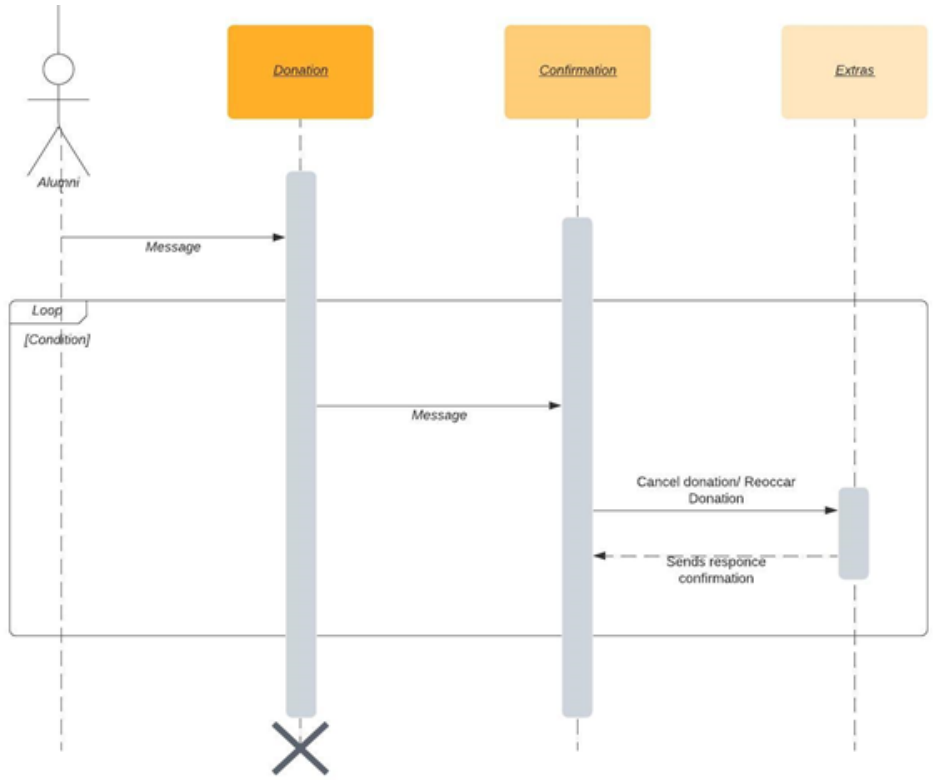
6. Extension Points

none

6.1 <Name of Extension Point>

On the website

Use Case Diagram:



Use Case Specification: <Use-Case 21 Add Announcement>

1. Use-Case Name

1.1 Brief Description

Any user will be allowed to add an upcoming announcement for events.

2. Flow of Events

2.1 Basic Flow

The flow of these events will occur are, once you click add upcoming event announcement, after you click view my announcements, you will be brought to a screen where you will to have input your name, if you are a student, facility/staff, or an alumni. Then it will give you a date box of a calendar which you can add which date(s) is the event going to happen and a time for that event. As well as Where this event will be taken place at. Then it will give a short description of the event and media add on's that you can input a flyer or pictures or a sign up sheet. Then you

click submit which then will be sent to get looked over and then out to the annoucnements page onces it gets approved.

2.2 Alternative Flows

2.2.1 < First Alternative Flow >

It can be for any small or big event as long as you make sure it gets approved to actually be able to see it on the website

< An Alternative Subflow >

None

2.2.2 < Second Alternative Flow >

None

3. Special Requirements

Will be:

- Name
- Email
- Description
- Date and Time
- Where it takes place.

3.1 < First Special Requirement >

Name and Email and Description

4. Pre-conditions

They have to make sure they request a room in advanced

4.1 < Pre-condition One >

5. Post-conditions

Getting Approved to have it show on the page

5.1 < Post-condition One >

6. Extension Points

none

6.1 <Name of Extension Point>

On the website

Use Case Specification: <Use-Case 22 Modify Announcement>

1. Use-Case Name

1.1 Brief Description

Any user had be allowed to modify an upcoming announcement for events.

2. Flow of Events

2.1 Basic Flow

The flow of these events had occur are, once you click modify upcoming event announcement, after you click view my announcements, you had be brought to a screen where you had to have input your name, if you are a student, facility/staff, or an alumni. Then it had give you a date box of a calendar which you can modify which date(s) is the event going to happen and a time for that event. As well as Where this event had be taken place at. Then it had give a short description of the event and media modify on's that you can input a flyer or pictures or a sign up sheet. Then you click submit which then had be sent to get looked over and then out to the annoucnements page onces it gets approved.

2.2 Alternative Flows

2.2.1 < First Alternative Flow >

It can be for any small or big event as long as you make sure it gets approved to actually be able to see it on the website

< An Alternative Subflow >

None

2.2.2 < Second Alternative Flow >

None

3. Special Requirements

Had be:

1. Name
2. Email
3. Description
4. Date and Time
5. Where it takes place.

3.1 < First Special Requirement >

Name and Email and Description

4. Pre-conditions

They have to make sure they request a room in advanced

4.1 < Pre-condition One >

5. Post-conditions

Getting Approved to have it show on the page

5.1 < Post-condition One >

6. Extension Points

none

6.1 <Name of Extension Point>

On the website

Use Case Specification: <Use-Case 23 Cancel Announcement>

1. Use-Case Name

2. Brief Description

Any user will be allowed to cancel an upcoming announcement for events.

3. Flow of Events

4. Basic Flow

The flow of these events will occur are, once you click cancel upcoming event announcement, after you click view my announcements, you will be brought to a screen where it show you all your announcements. Then you click delete. Then you click submit.

5. Alternative Flows

6. < *First Alternative Flow* >

It can be for any reason.

< An Alternative Subflow >

None

7. < *Second Alternative Flow* >

None

8. Special Requirements

Will be:

- Name
- Email
- Description
- Reason to cancel

9. < First Special Requirement >

Name and Email and Description

10. Pre-conditions

They have to make sure they are allowed to cancel the event given a day or two notice

11. < Pre-condition One >

12. Post-conditions

Making sure you can cancel the event

Making sure it is more than two days notice

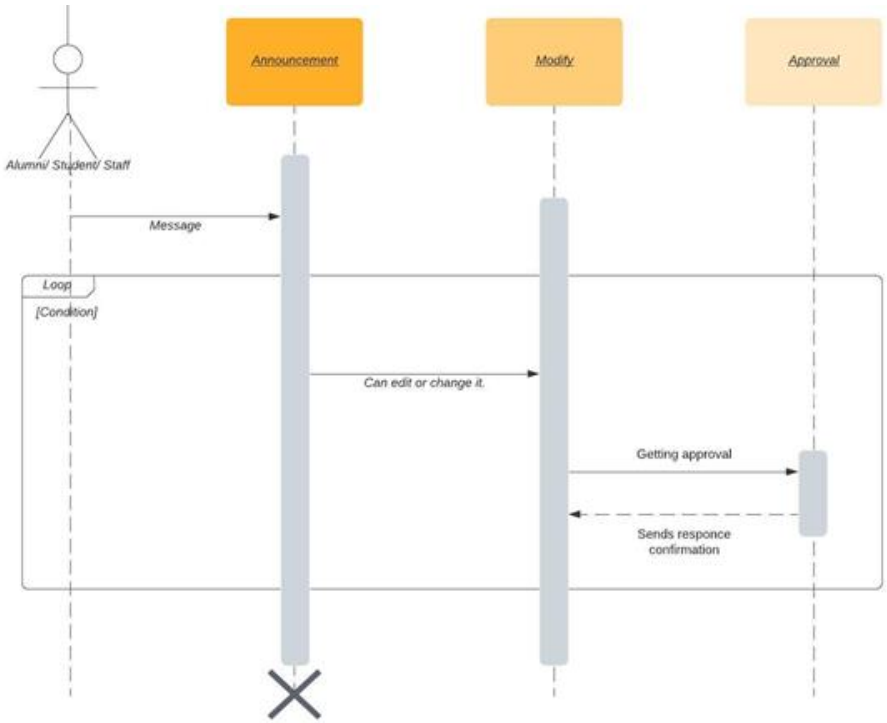
13. < Post-condition One >

14. Extension Points

none

15. <Name of Extension Point>

On the website


Announcement
Modify
Approval
Alumni/ Student/ Staff
Message
Loop
[Condition]
Can edit or change it.
Getting approval
Sends responce
confirmation

Use Case Specification: <Use-Case 24 Upload Photo Album>

1. Use-Case Name

2. Brief Description

Any user will be allowed to upload photos to the photo album and carousel.

3. Flow of Events

4. Basic Flow

The flow of these events will occur are, once you click on photo albums then you will be able to upload the photo after the guidelines pop up, then input your name, they people who are in the photo, a description of what the photo is and then you will have to input your email where then you click next it will send you a confirmation email & then it will get approved or not and it will be upload on the website.

5. Alternative Flows

6. < First Alternative Flow >

It can be any event or a class or anything related to CIS

< An Alternative Subflow >

None

7. < Second Alternative Flow >

None

8. Special Requirements

Will be:

- Name
- Email
- Description
- Photo

9. < First Special Requirement >

Name and Email and Description & Photo

10. Pre-conditions

They have to make sure they use an appropriate photo that meets the guidelines

11. < Pre-condition One >

Meeting the guidelines

12. Post-conditions

Getting approved

13. < Post-condition One >

14. Extension Points

none

15. <Name of Extension Point>

On the website

Use Case Specification: <Use-Case 25 Modify Photo Album >

1. Use-Case Name

2. Brief Description

Any user will be allowed to modify photos to the photo album and carousel.

3. Flow of Events

4. Basic Flow

The flow of these events will occur are, once you click on photo albums then your photos then you will be able to modify the photo after the guidelines pop up, then input your name, they people who are in the photo, a description of what the photo is and then you will have to input your email where then you click next it will send you a confirmation email & then it will get approved or not and it will be modify on the website.

5. Alternative Flows

6. < First Alternative Flow >

It can be any event or a class or anything related to CIS

< An Alternative Subflow >

None

7. < Second Alternative Flow >

None

8. Special Requirements

Will be:

- Name
- Email
- Description
- Photo

9. < First Special Requirement >

Name and Email and Description & Photo

10. Pre-conditions

They have to make sure they use an appropriate photo that meets the guidelines

11. < Pre-condition One >

Meeting the guidelines

12. Post-conditions

Getting approved

13. < Post-condition One >

14. Extension Points

none

15. <Name of Extension Point>

On the website

Use Case Specification: <Use-Case 26 Delete Photo Album >

6. Use-Case Name

2. Brief Description

Any user will be allowed to delete photos to the photo album and carousel.

3. Flow of Events

4. Basic Flow

The flow of these events will occur are, once you click on photo albums then your photos then you will be able to delete the photo then you click next it will send you a confirmation email & then it will get approved or not and it will be delete on the website.

5. Alternative Flows

6. < First Alternative Flow >

Reason to be deleted

< An Alternative Subflow >

None

7. < Second Alternative Flow >

None

8. Special Requirements

Will be:

- Name
- Email
- Which photo
- Reason to delete

9. < First Special Requirement >

Name, Email, Reason to be deleted & Photo

10. Pre-conditions

That you have uploaded a photo

11. < Pre-condition One >

12. Post-conditions

Getting confirmation

13. < Post-condition One >

14. Extension Points

none

15. <Name of Extension Point>

On the website

Use Case Specification: Create Calendar Events

Modify Calendar Events

Brief Description

Situation where user creates an event(s) in the calendar.

Flow of Events

Basic Flow

User selects “edit calendar”.

User selects certain day in the calendar.

User creates “event”

User selects start time and end time

User confirms the times and event is created.

Alternative Flows

No alternative flows

Special Requirements

N/A

Pre-conditions

- User must have a verified account to create an event on the calendar.

Post-conditions

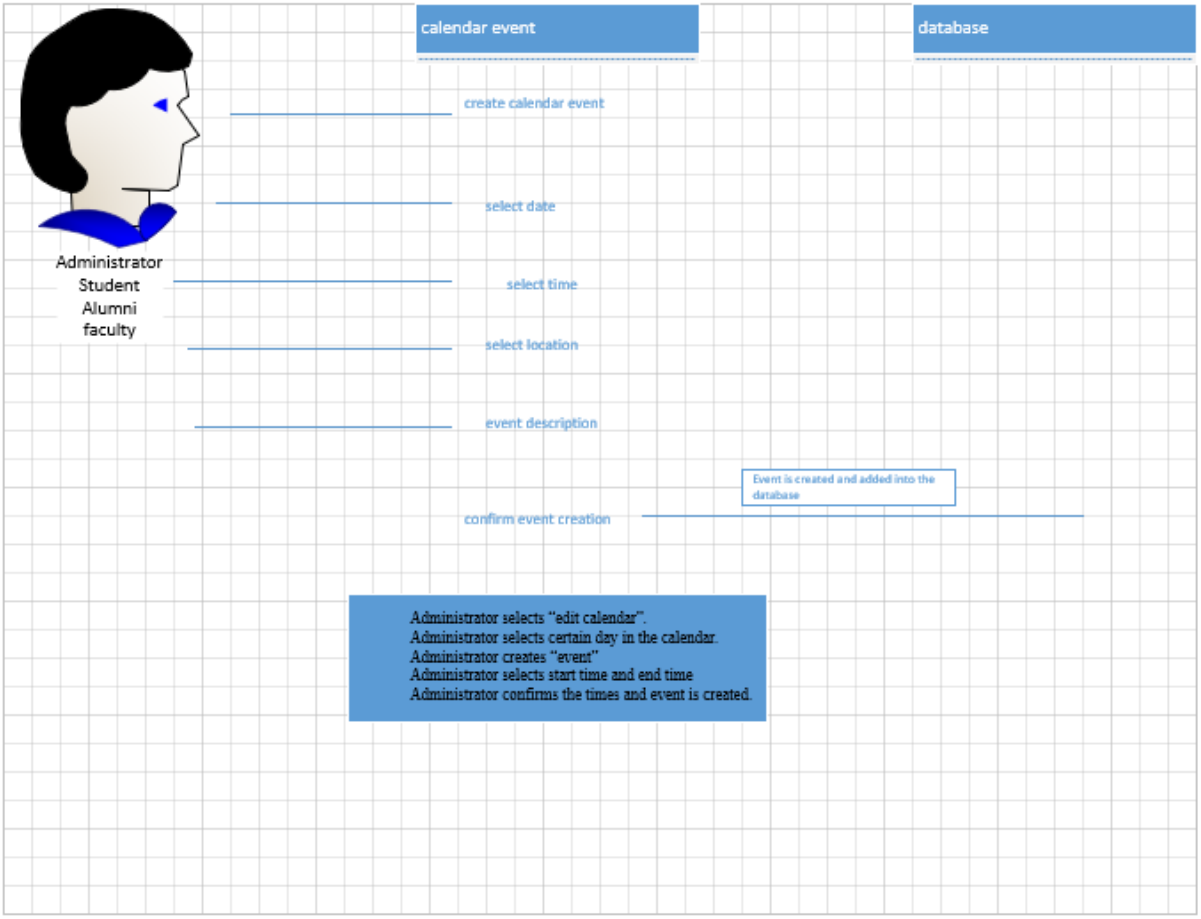
N/A

Extension Points

N/A

<Name of Extension Point>

N/A


calendar event
database
create calendar event
select date
select time
select location
event description
Event is created and added into the database
confirm event creation
Administrator
Student
Alumni
faculty
Administrator selects "edit calendar".
Administrator selects certain day in the calendar.
Administrator creates "event"
Administrator selects start time and end time
Administrator confirms the times and event is created.

Use Case Specification: Modify Calendar Events

Modify Calendar Events

Brief Description

Situation where user modifies events/notifications in the calendar.

Flow of Events

Basic Flow

User selects “edit calendar”.

User selects certain day in the calendar.

User edits events/notifications as needed.

Alternative Flows

No alternative flows

Special Requirements

N/A

Pre-conditions

- User must have a verified account to make an event on the calendar before even being able to edit an event.

Post-conditions

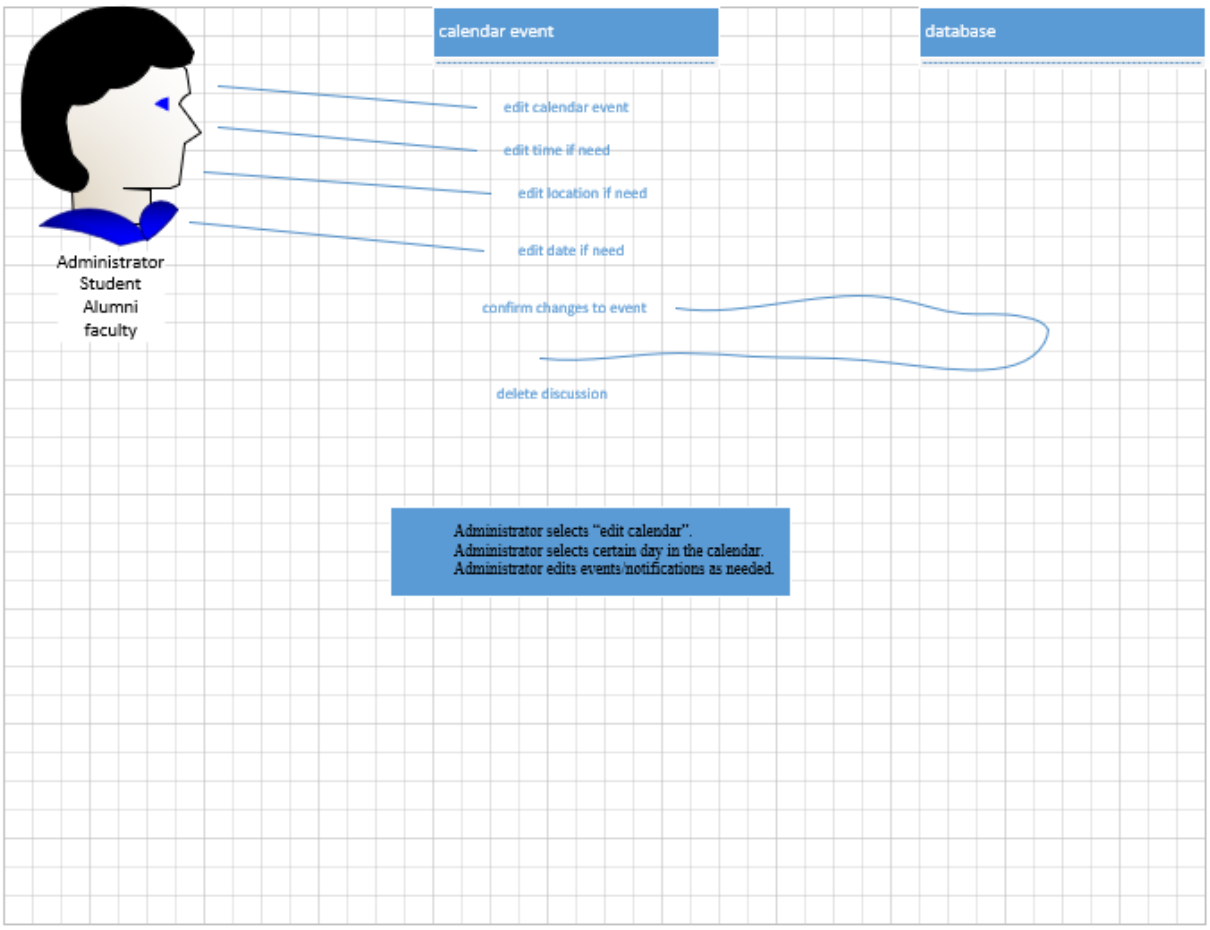
N/A

Extension Points

N/A

<Name of Extension Point>

N/A


calendar event
database
edit calendar event
edit time if need
edit location if need
edit date if need
confirm changes to event
delete discussion
Administrator
Student
Alumni
faculty
Administrator selects "edit calendar".
Administrator selects certain day in the calendar.
Administrator edits events/notifications as needed.

Use Case Specification: Delete Calendar Events

Delete Calendar Events

Brief Description

Situation where user deletes events/notifications in the calendar.

Flow of Events

Basic Flow

User selects “edit calendar”.

User selects the created event in the calendar.

User clicks the option to delete the event.

Website will prompt a YES/NO confirmation if the user wants to delete the event or not.

User will select option YES and the event/notifications will be deleted.

Alternative Flows

No alternative flows

Special Requirements

N/A

Pre-conditions

- User must have a verified account to make an event on the calendar before even being able to edit/delete an event.

Post-conditions

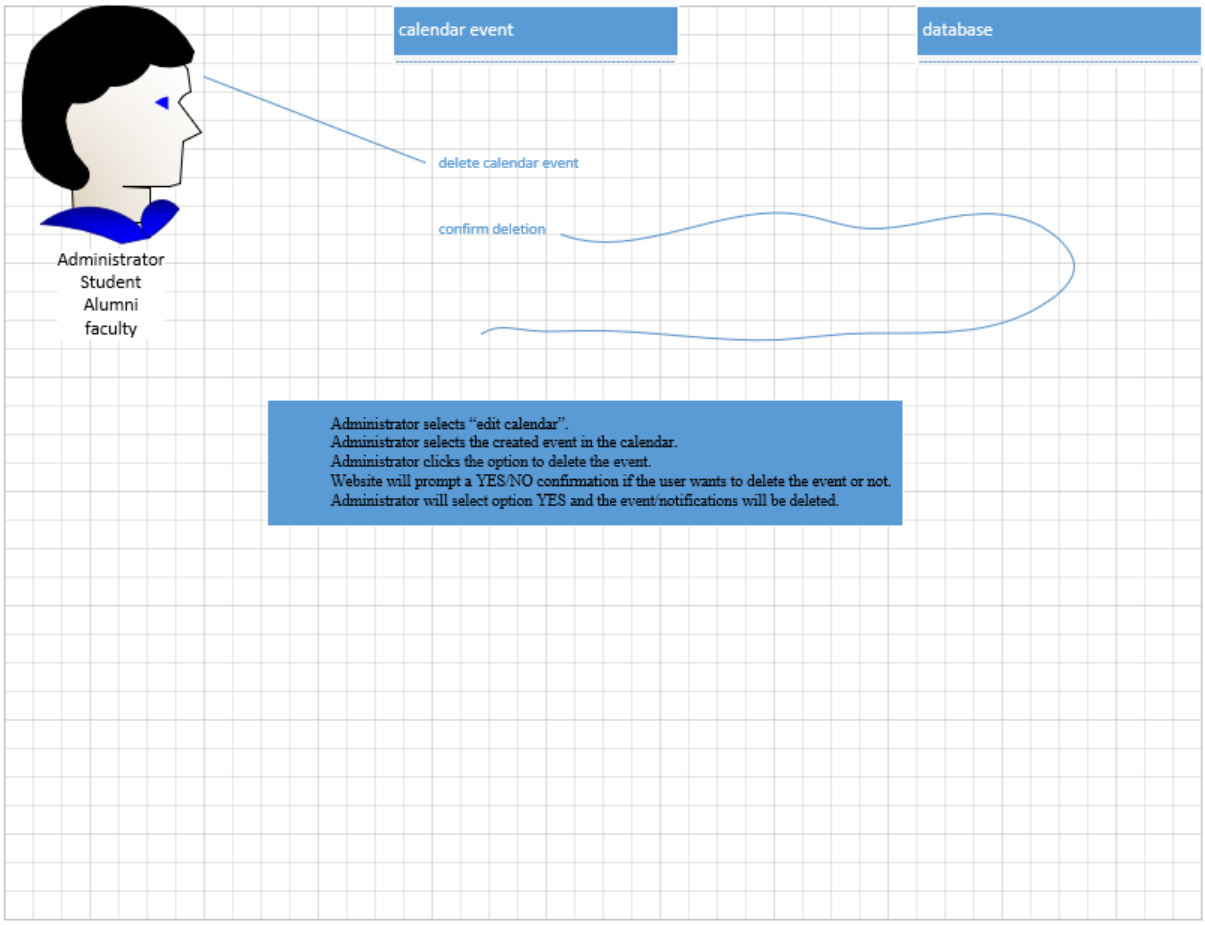
N/A

Extension Points

N/A

<Name of Extension Point>

N/A


calendar event
database
delete calendar event
confirm deletion
Administrator
Student
Alumni
faculty
Administrator selects "edit calendar".
Administrator selects the created event in the calendar.
Administrator clicks the option to delete the event.
Website will prompt a YES/NO confirmation if the user wants to delete the event or not.
Administrator will select option YES and the event/notifications will be deleted.

Use Case Specification: Add Email Blast

Add Email Blast

Brief Description

Situation where the user (administrator for this scenario) will create an email that will be sent to all users selected of the system.

Flow of Events

Basic Flow

User (administrator) writes the email (from subject line to finish).

User (administrator) selects email blast option given on CMS (WordPress).

User (administrator) tests the email blast to make sure it works.

User (administrator) selects email blast recipients.

User (administrator) officially sends the email blast.

Alternative Flows

No alternative flows

Special Requirements

User must have administrative rights to send email blasts.

Pre-conditions

- User must have a verified account.
- User must have administrative rights.

Post-conditions

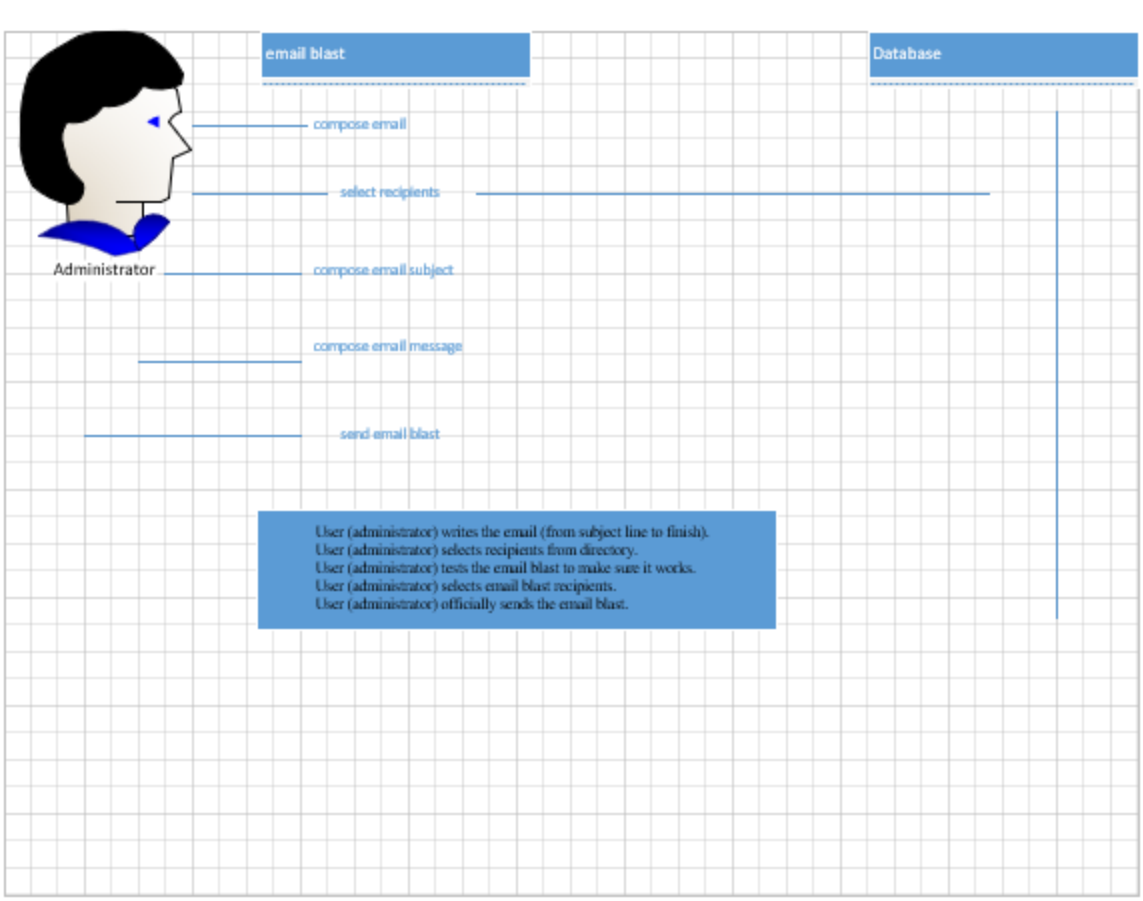
N/A

Extension Points

N/A

<Name of Extension Point>

N/A


email blast
Database
compose email
select recipients
Administrator
compose email subject
compose email message
send email blast
User (administrator) writes the email (from subject line to finish).
User (administrator) selects recipients from directory.
User (administrator) tests the email blast to make sure it works.
User (administrator) selects email blast recipients.
User (administrator) officially sends the email blast.

Use Case Specification: Modify Email Blast

Modify Email Blast

Brief Description

Situation where the user (administrator for this scenario) will modify the email blast before sending it out.

Flow of Events

Basic Flow

User (administrator) writes the email (from subject line to finish).

User (administrator) selects email blast option given on CMS (WordPress).

User (administrator) tests the email blast to make sure it works.

User (administrator) selects email blast recipients.

User (administrator) officially sends the email blast.

After sending the email blast, user modifies email blast as needed then resends.

Alternative Flows

User can review email blast before sending it out at all.

Special Requirements

User must have administrative rights to send/modify email blasts.

Pre-conditions

- User must have a verified account.
- User must have administrative rights.

Post-conditions

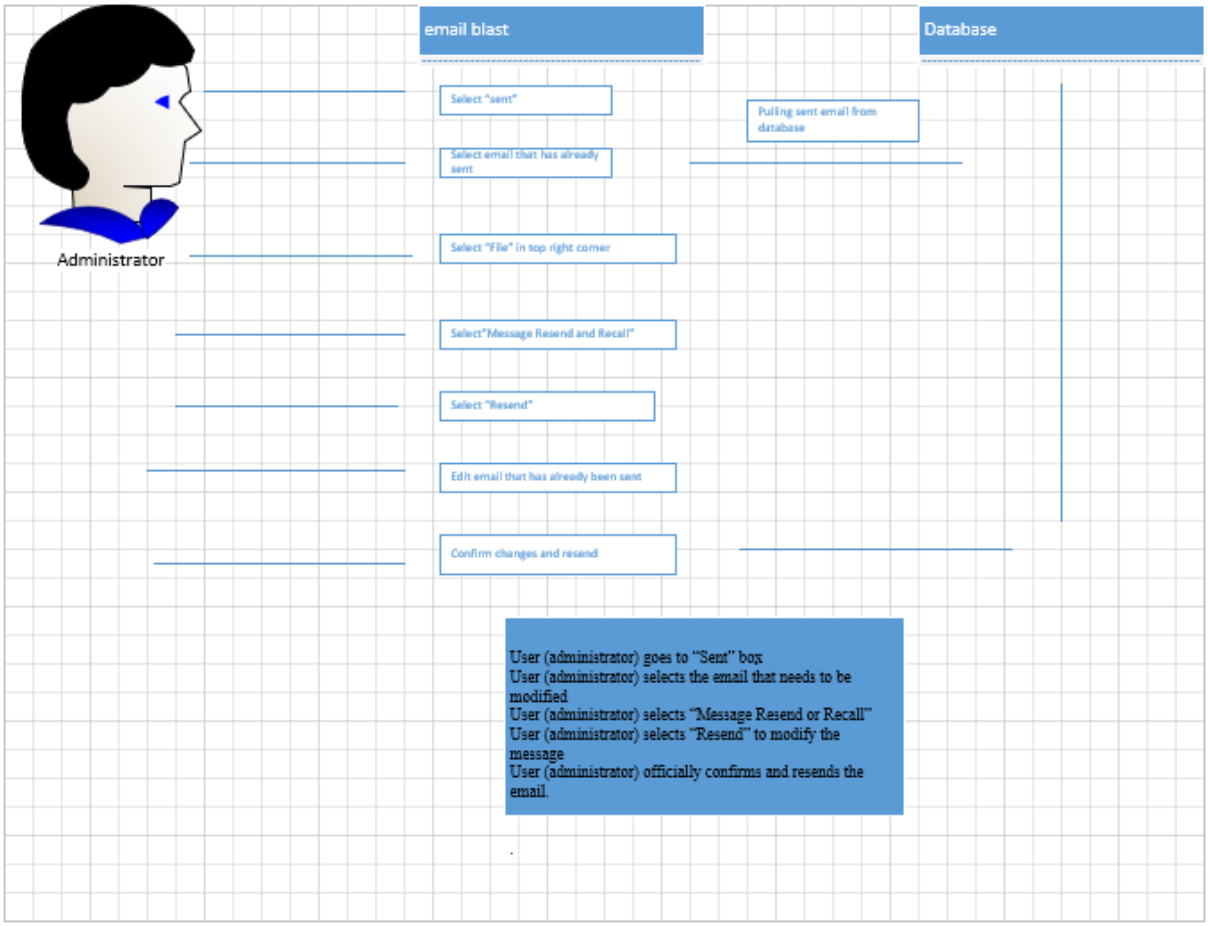
N/A

Extension Points

N/A

<Name of Extension Point>

N/A


email blast
Database
Administrator
Select "sent"
Pulling sent email from database
Select email that has already sent
Select "File" in top right corner
Select"Message Resend and Recall"
Select "Resend"
Edit email that has already been sent
Confirm changes and resend
User (administrator) goes to "Sent" box
User (administrator) selects the email that needs to be modified
User (administrator) selects "Message Resend or Recall"
User (administrator) selects "Resend" to modify the message
User (administrator) officially confirms and resends the email.

Use Case Specification: Delete Email Blast

Delete Email Blast

Brief Description

Situation where the user (administrator for this scenario) will delete the email blast.

Flow of Events

Basic Flow

User (administrator) unsends/deletes the email blast.

Alternative Flows

User (administrator) reviews the email blast more carefully before sending it

Special Requirements

User must have administrative rights to send/modify/deletes email blasts.

Pre-conditions

- User must have a verified account.
- User must have administrative rights.

Post-conditions

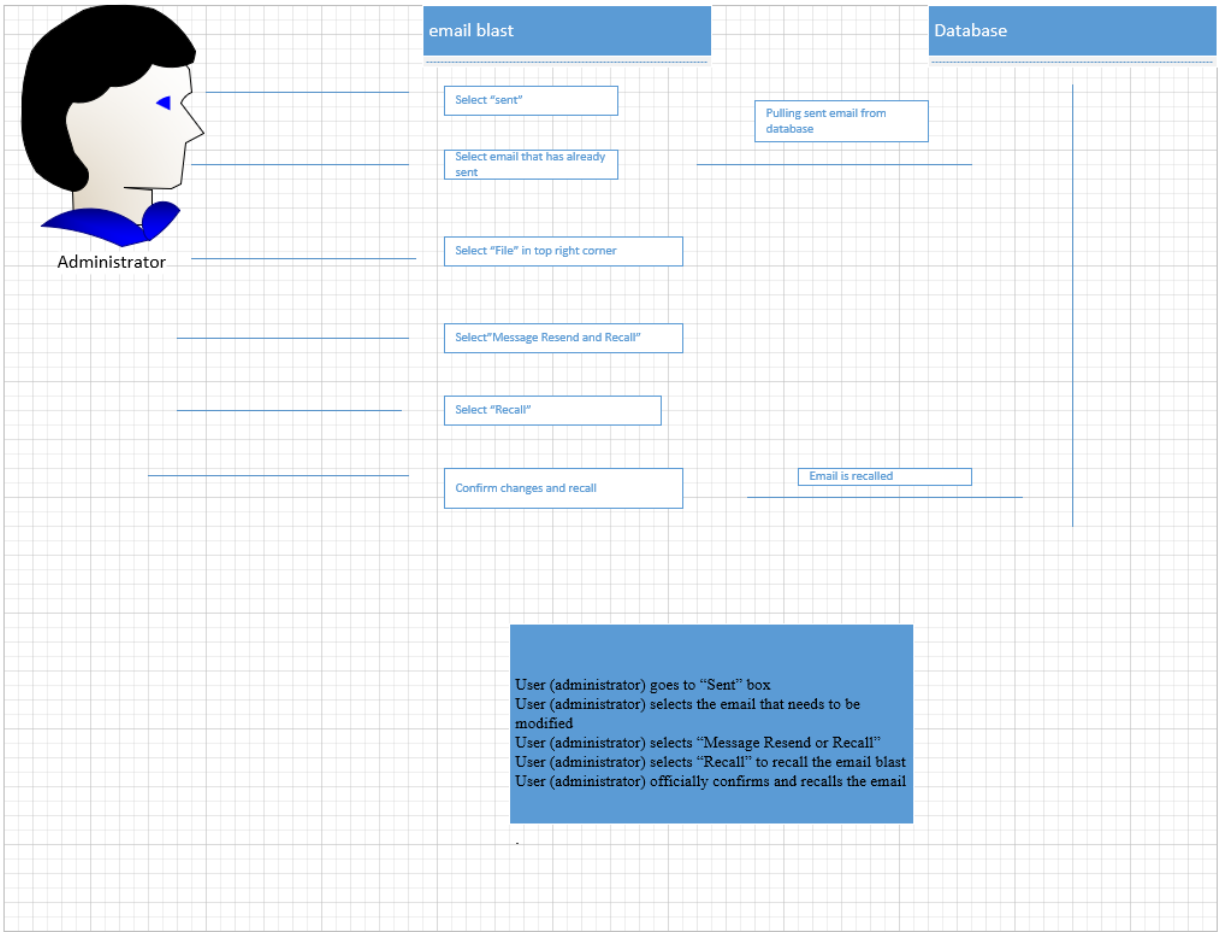
Email Blast is unsent/deleted.

Extension Points

N/A

<Name of Extension Point>

N/A


email blast
Database
Administrator
Select "sent"
Pulling sent email from database
Select email that has already sent
Select "File" in top right corner
Select"Message Resend and Recall"
Select "Recall"
Confirm changes and recall
Email is recalled
User (administrator) goes to "Sent" box
User (administrator) selects the email that needs to be modified
User (administrator) selects "Message Resend or Recall"
User (administrator) selects "Recall" to recall the email blast
User (administrator) officially confirms and recalls the email

Use Case Specification: Discussion Board Creation

Discussion Board Creation

Brief Description

Situation where the user will create a discussion board.

Flow of Events

Basic Flow

User logs in.

User clicks “Create Discussion Board”

User gives a name to the discussion board.

Discussion board is created.

Alternative Flows

No alternative flows

Special Requirements

User must have a verified account to log in.

Pre-conditions

- User must have a verified account.

Post-conditions

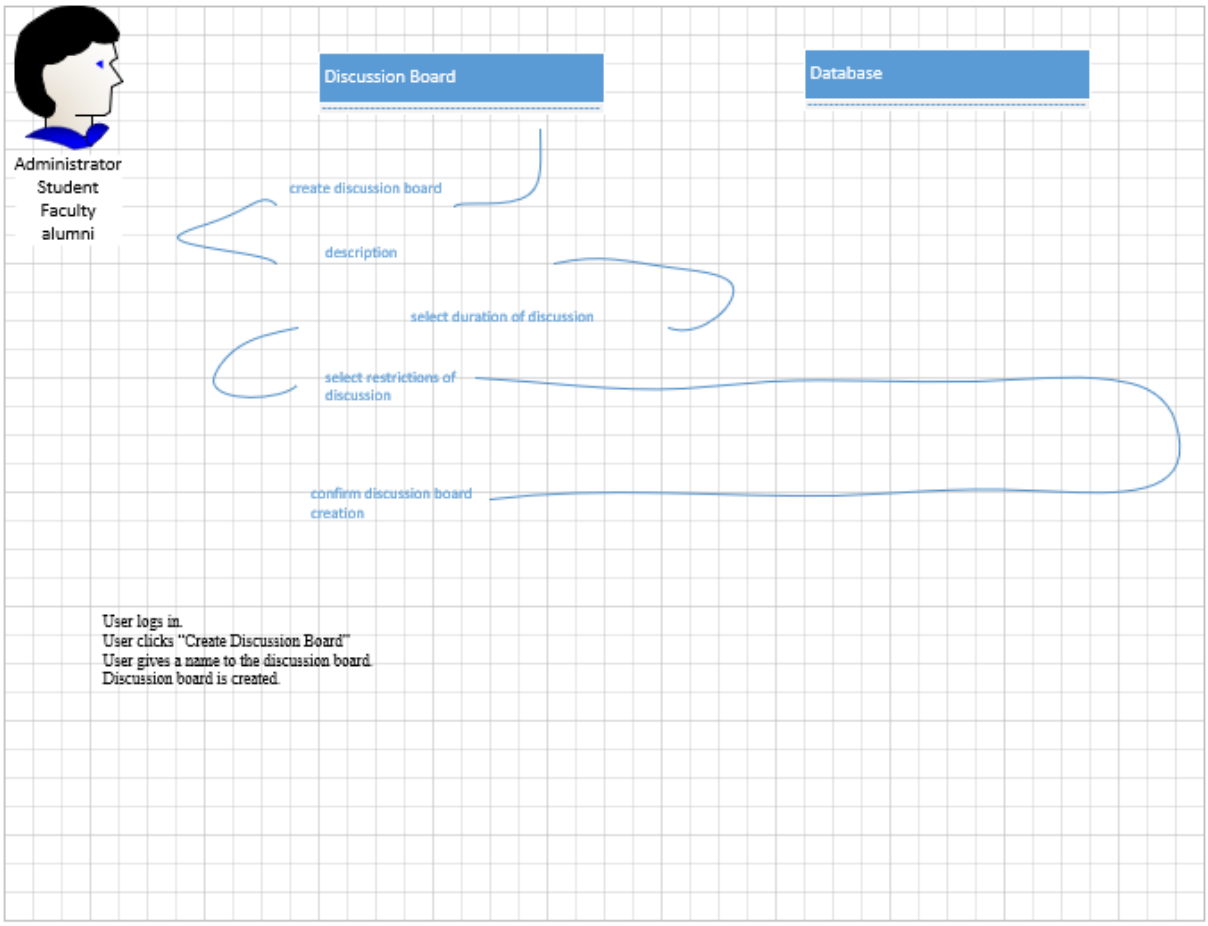
Discussion Board is created.

Extension Points

N/A

<Name of Extension Point>

N/A



User logs in.
User clicks "Create Discussion Board"
User gives a name to the discussion board.
Discussion board is created.

Use Case Specification: Modify Discussion Board

Modify Discussion Board

Brief Description

Situation where the user(student/alumni/faculty) will modify their discussion board.

Flow of Events

Basic Flow

User logs in.

User finds their discussion board.

User clicks “Edit Discussion Board”.

User edits any necessary changes to the discussion board.

User clicks “Confirm Changes”

Website prompts confirmation to changes one more time.

User confirms changes.

Alternative Flows

No alternative flows

Special Requirements

User must have a verified account to log in.

Pre-conditions

- User must have a verified account.

Post-conditions

Edits to the discussion board is created.

Extension Points

N/A

<Name of Extension Point>

N/A

Administrator
Student
Faculty
alumni

Discussion Board

Database

edit discussion

confirm changes

User logs in.
User finds their discussion board.
User clicks "Edit Discussion Board".
User edits any necessary changes to the discussion board.
User clicks "Confirm Changes"
Website prompts confirmation to changes one more time.
User confirms changes.

Use Case Specification: Delete Discussion Board

Discussion Board Creation

Brief Description

Situation where the user will delete a discussion board.

Flow of Events

Basic Flow

User logs in.

User clicks “Discussion Board Settings”

User selects “Delete Discussion Board”

Website prompts a confirm selection choice of YES or NO to double check deletion of discussion board.

User confirms deletion.

Alternative Flows

No alternative flows

Special Requirements

User must have a verified account to log in.

Discussion board must be the user’s own creation.

Pre-conditions

- User must have a verified account.
- Discussion Board must be the user’s own creation.

Post-conditions

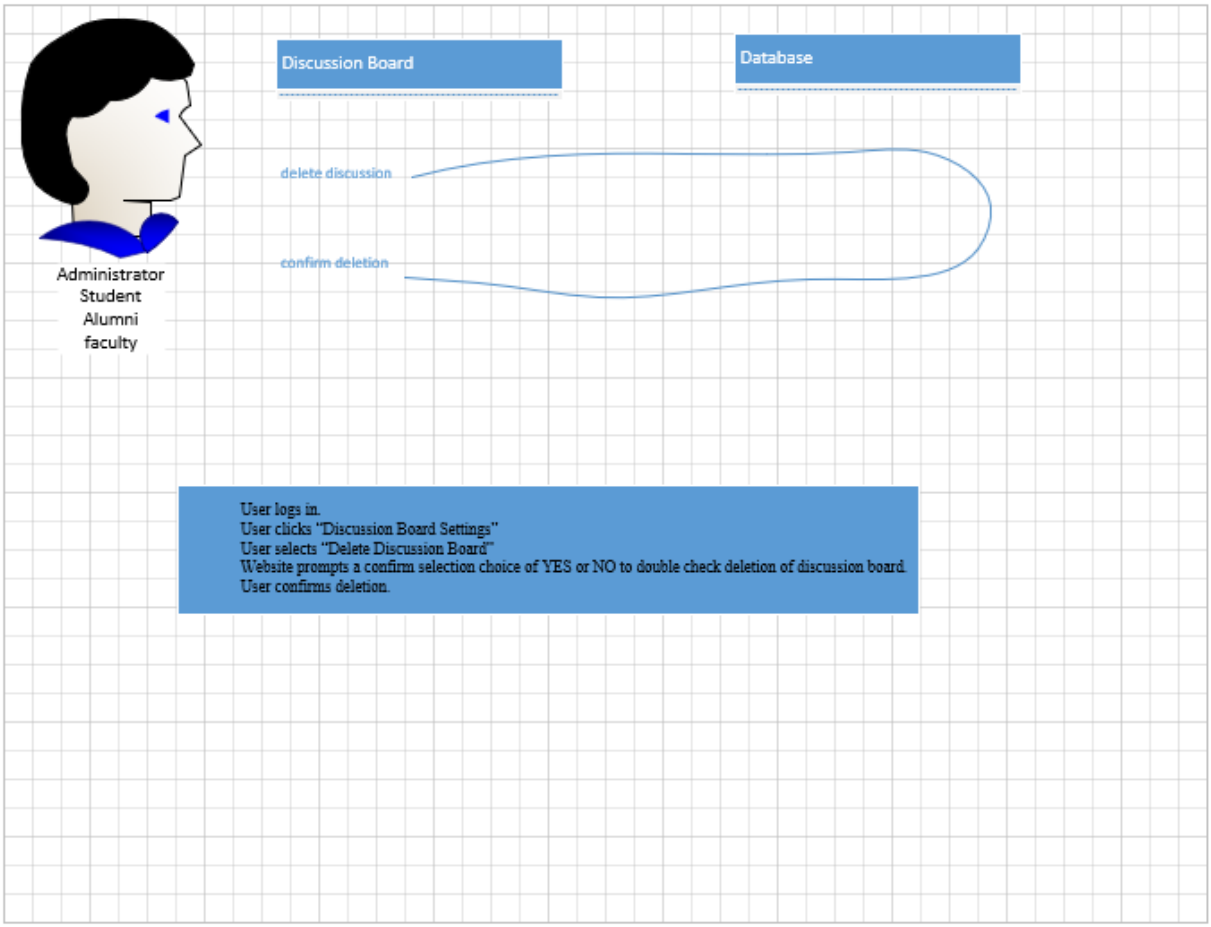
Discussion Board is deleted.

Extension Points

N/A

<Name of Extension Point>

N/A



Kali McHugh Use Cases 37-44

Use Case Specification: Modify Reply in Discussion Board

Modify Reply in Discussion Board

Brief Description

Situation where user modifies a reply in the Discussion Board

Flow of Events

Basic Flow

User selects “edit post”.

User modifies reply as needed.

User selects “save”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have an account to make a post on the Discussion Board

Post-conditions

None

Extension Points

User can only modify their post, not another user’s

<Name of Extension Point>

[Definition of the location of the extension point in the flow of events.]

Use Case Specification: Delete Reply in Discussion Board

Delete Reply in Discussion Board

Brief Description

Situation where user deletes a reply in the Discussion Board

Flow of Events

Basic Flow

User selects “edit post”.

User selects “delete”

A message pops up confirming the deletion

User selects “OK”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have an account to make a post on the discussion board before even making a post on Discussion Board.

Post-conditions

None

Extension Points

User can only delete their post, not another user’s

<Name of Extension Point>

n/a

Use Case Specification: Create Message Board

Create Message Board

Brief Description

Situation where user creates a message only the admin will see

Flow of Events

Basic Flow

User selects “create message board”.

User writes a message to the admin

User selects “send”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have an account to create a message board

Post-conditions

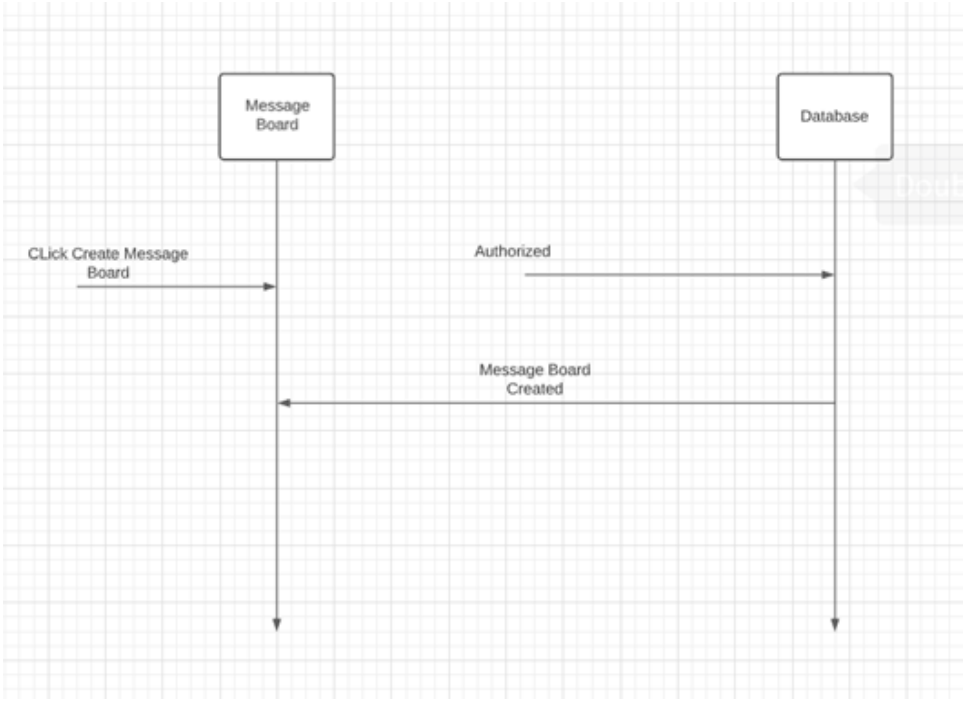
None

Extension Points

none

<Name of Extension Point>

[Definition of the location of the extension point in the flow of events.]



Use Case Specification: Modify Message Board

Modify Message Board

Brief Description

Situation where user modifies a message on the message board that only the admin will see

Flow of Events

Basic Flow

User selects “modify message board”

User changes the message as needed

User selects “save”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have previously created a message board
- User must have an account to modify a message board

Post-conditions

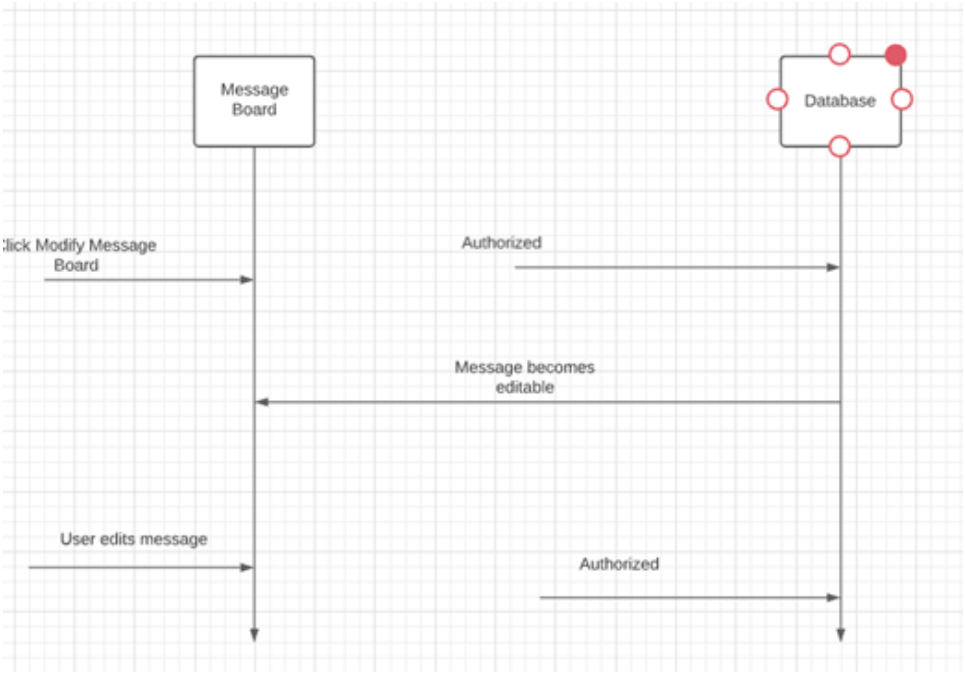
None

Extension Points

User can only modify a message in the message board that they created

<Name of Extension Point>

[Definition of the location of the extension point in the flow of events.]



Use Case Specification: Delete Message Board

Delete Message Board

Brief Description

Situation where user deletes a message on the message board that only the admin will see

Flow of Events

Basic Flow

User selects “modify message board”

User selects “delete message”

Message box appears asking for confirmation

User selects “OK”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have previously created a message board
- User must have an account to delete a message board

Post-conditions

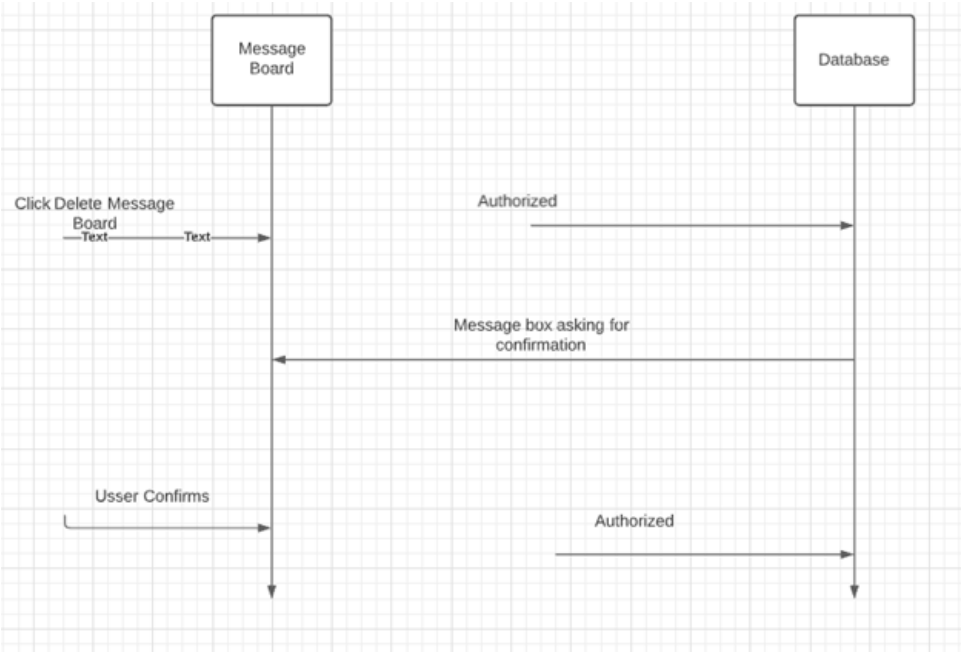
None

Extension Points

User can only delete a message in the message board that they created

<Name of Extension Point>

[Definition of the location of the extension point in the flow of events.]



Use Case Specification: Add Message Board Reply

Add Message Board Reply

Brief Description

Situation where user adds a message on the message board that only the admin will see

Flow of Events

Basic Flow

User selects “message board”

User is taken to the message string

User selects “add message”

User creates a reply message

User selects “send”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have previously sent a message in the message board
- User must have an account to send a message

Post-conditions

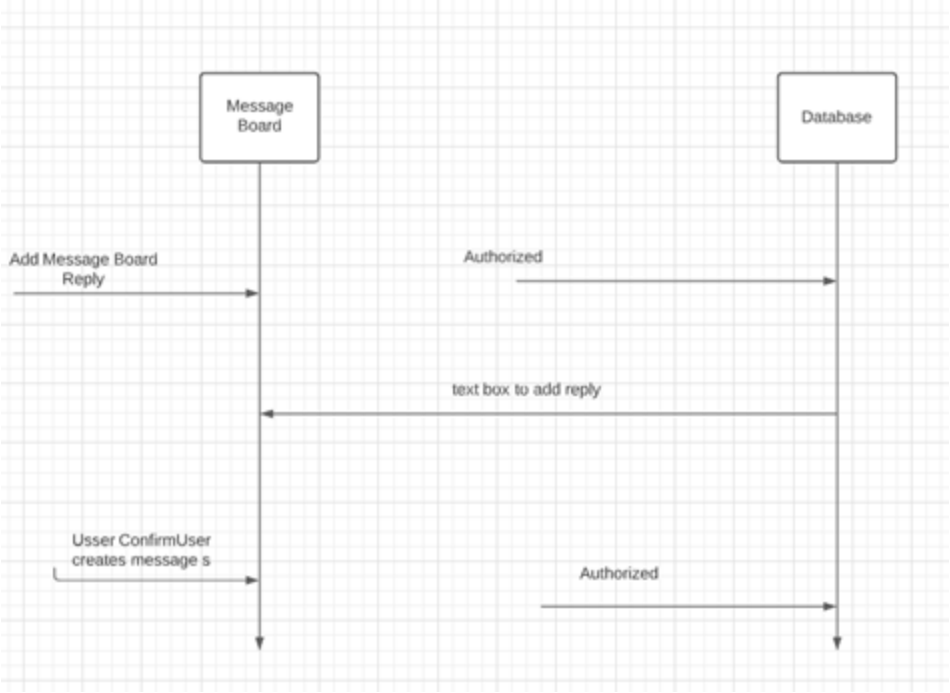
None

Extension Points

none

<Name of Extension Point>

[Definition of the location of the extension point in the flow of events.]



Use Case Specification: Modify Message Board Reply

Modify Message Board Reply

Brief Description

Situation where user modifies a message reply on the message board that only the admin will see

Flow of Events

Basic Flow

User selects “modify message”

User changes the message reply as needed

User selects “save”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have previously sent a reply message in the message board
- User must have an account to modify a message board

Post-conditions

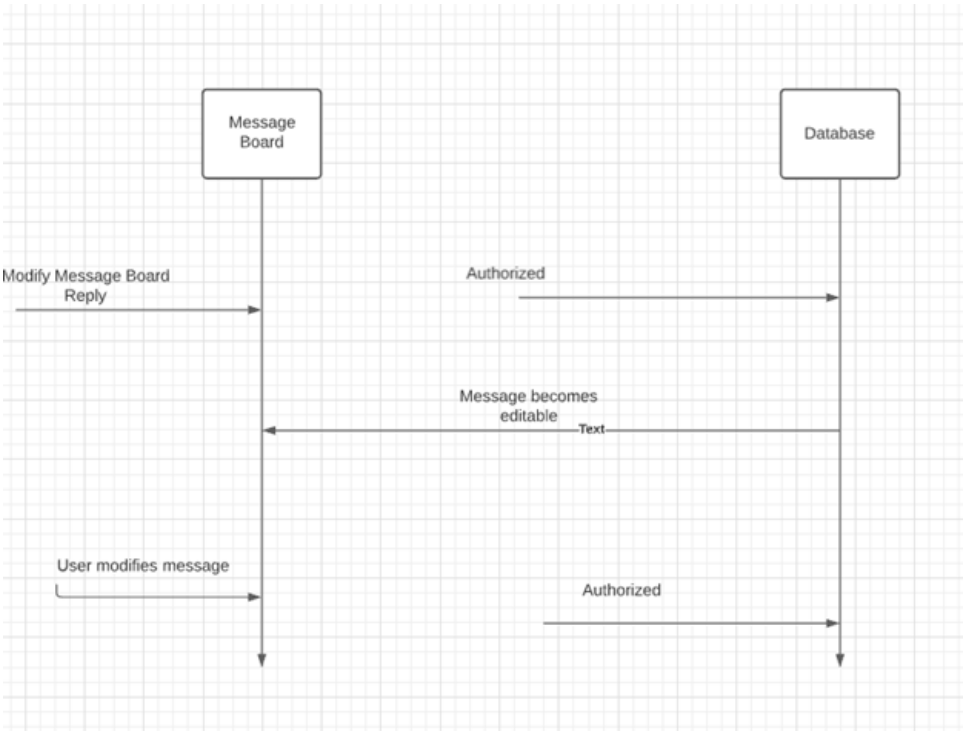
None

Extension Points

User can only modify a message reply in the message board that they created

<Name of Extension Point>

[Definition of the location of the extension point in the flow of events.]



Use Case Specification: Delete Message Board Reply

Delete Message Board Reply

Brief Description

Situation where user deletes a message reply on the message board that only the admin will see

Flow of Events

Basic Flow

User selects “modify message”

User selects “delete”

A message box appears confirming deletion

User selects “OK”

Alternative Flows

No alternative flows

Special Requirements

None

Pre-conditions

- User must have previously sent a reply message in the message board
- User must have an account to modify a message board

Post-conditions

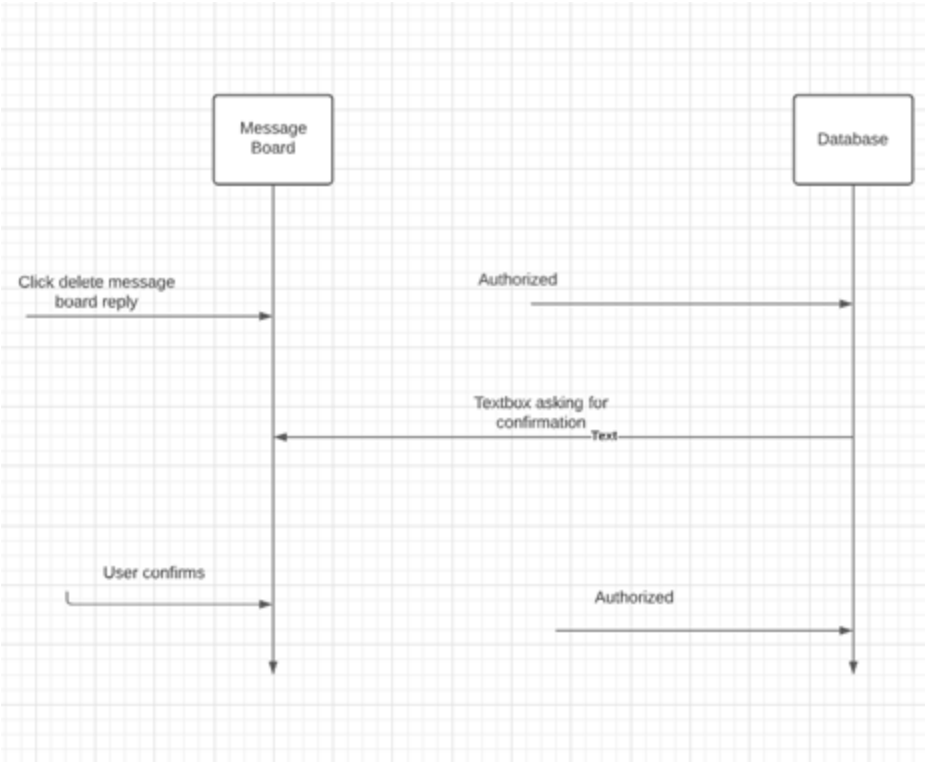
None

Extension Points

- User can only delete a message reply in the message board that they created

<Name of Extension Point>

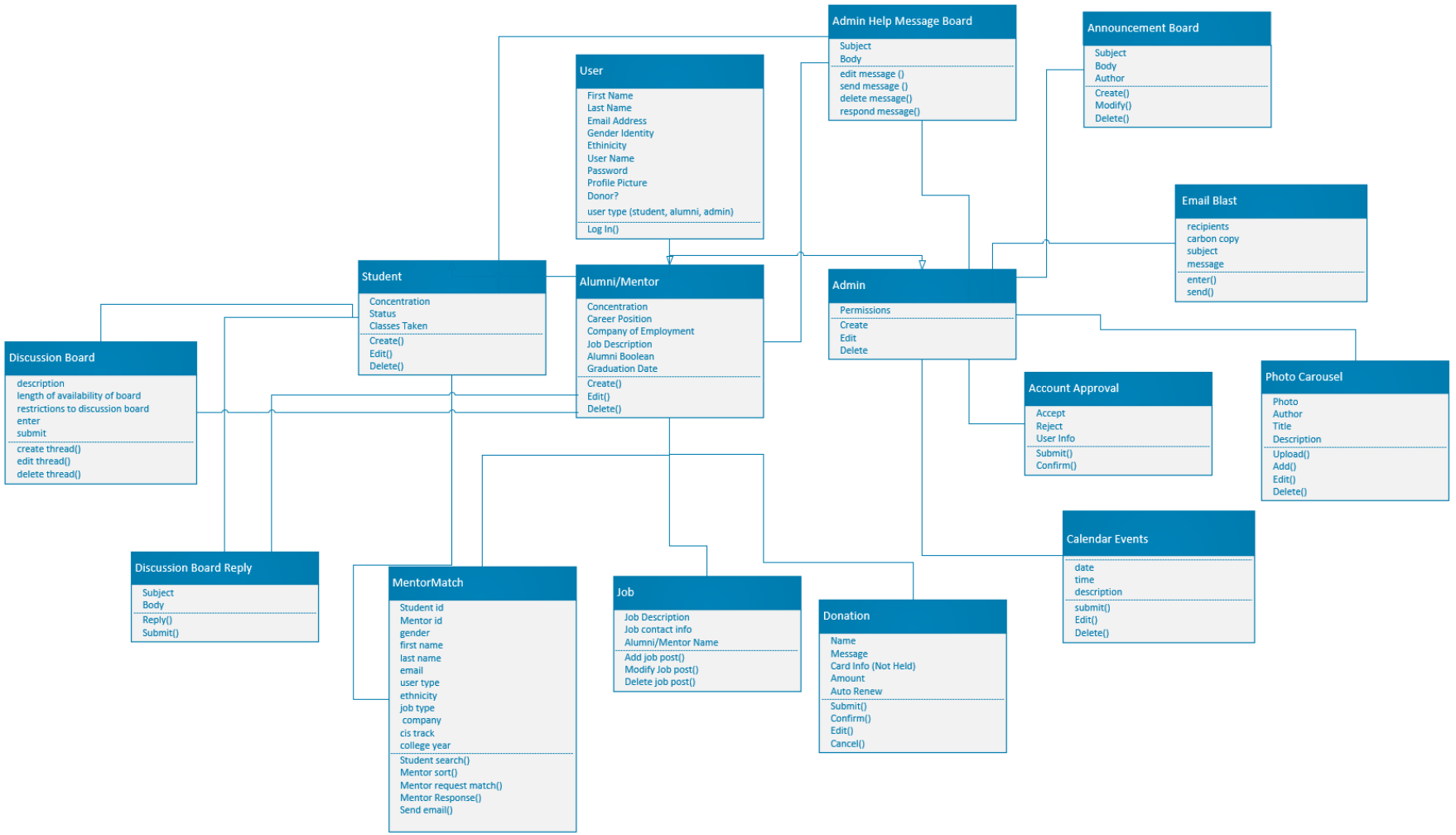
[Definition of the location of the extension point in the flow of events.]


Message Board
Database
Click delete message board reply
Authorized
Textbox asking for confirmation
Text
User confirms
Authorized

Class Diagram

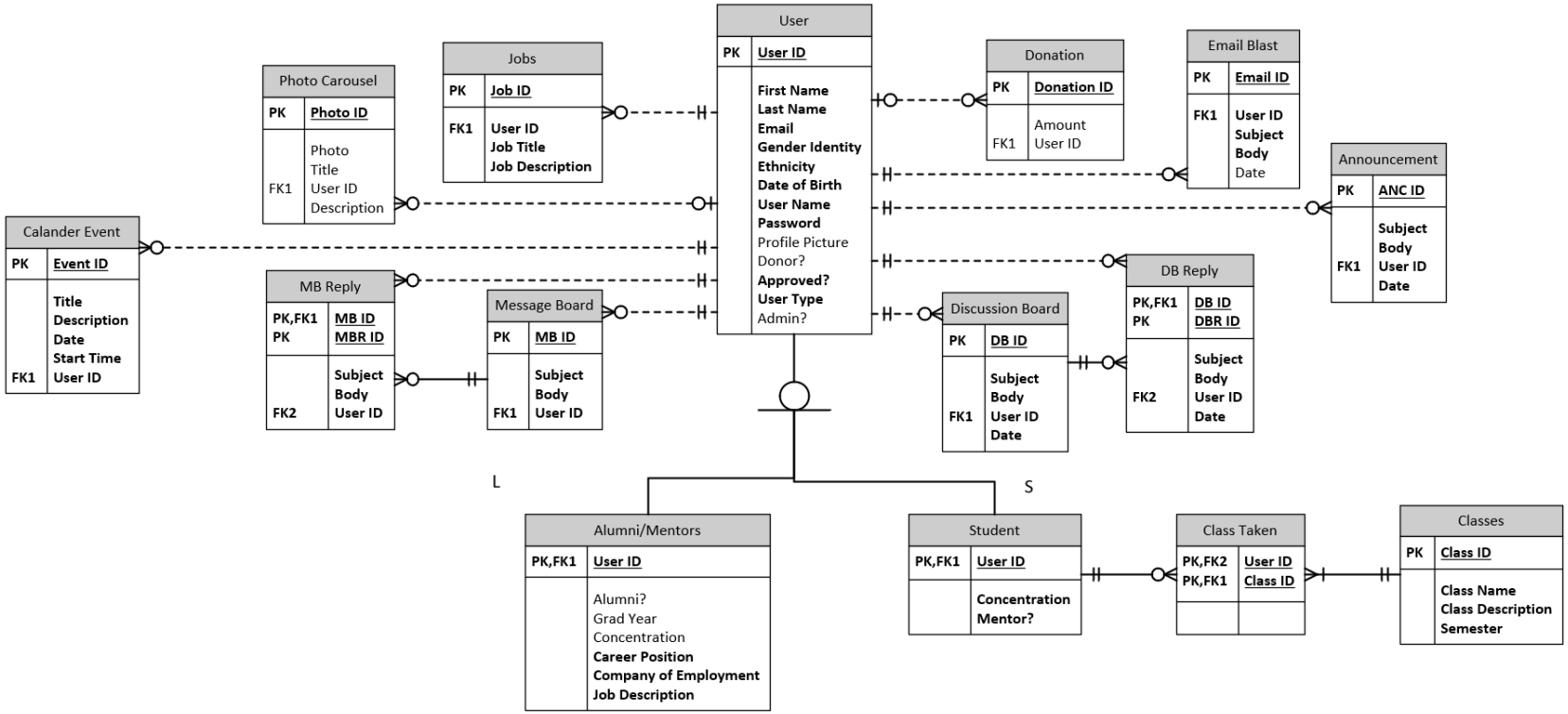
This Class diagram is to show the relationship between different classes and how they'll interact with each other or how the class will work within itself. This class diagram starts off with a superclass known as user. From there, there are three subclasses from the user class: student, alumni/mentor, and admin. The relationships drawn from these subclasses represents what each class is able to do within the website. For example, admins are the only people able to interact with the announcement board, email blast, and photo carousel classes, and everyone is able to interact with the admin help message board.

To create this class diagram, we used primarily subject verb analysis of our use cases. After these were analyzed and put into normal individual classes, the classes were factored and added together to make the classes extremely efficient.


Admin Help Message Board
Subject
Body
edit message ()
send message ()
delete message()
respond message()
Announcement Board
Subject
Body
Author
Create()
Modify()
Delete()
User
First Name
Last Name
Email Address
Gender Identity
Ethinicity
User Name
Password
Profile Picture
Donor?
user type (student, alumni, admin)
Log In()
Email Blast
recipients
carbon copy
subject
message
enter()
send()
Student
Concentration
Status
Classes Taken
Create()
Edit()
Delete()
Alumni/Mentor
Concentration
Career Position
Company of Employment
Job Description
Alumni Boolean
Graduation Date
Create()
Edit()
Delete()
Admin
Permissions
Create
Edit
Delete
Discussion Board
description
length of availability of board
restrictions to discussion board
enter
submit
create thread()
edit thread()
delete thread()
Account Approval
Accept
Reject
User Info
Submit()
Confirm()
Photo Carousel
Photo
Author
Title
Description
Upload()
Add()
Edit()
Delete()
Calendar Events
date
time
description
submit()
Edit()
Delete()
Discussion Board Reply
Subject
Body
Reply()
Submit()
MentorMatch
Student id
Mentor id
gender
first name
last name
email
user type
ethnicity
job type
company
cis track
college year
Student search()
Mentor sort()
Mentor request match()
Mentor Response()
Send email()
Job
Job Description
Job contact info
Alumni/Mentor Name
Add job post()
Modify Job post()
Delete job post()
Donation
Name
Message
Card Info (Not Held)
Amount
Auto Renew
Submit()
Confirm()
Edit()
Cancel()

Database Design and Data Definitions

This database was used creating the class diagram from above. Any attribute in there is likely within the ERD. The only exceptions are intangibles such as dates when things are posted within the database that is useful for record keeping purposes. There isn't an admin table within the ERD mostly because the only thing that being an admin does is give someone permission to do things. So instead of having a separate admin table, there is a checkmark that denotes if someone is or isn't an admin within the system. There are also additional entities when dealing with multivalued variables within the class diagram such as "classes."


User
PK User ID
First Name
Last Name
Email
Gender Identity
Ethnicity
Date of Birth
User Name
Password
Profile Picture
Donor?
Approved?
User Type
Admin?
Jobs
PK Job ID
FK1 User ID
Job Title
Job Description
Photo Carousel
PK Photo ID
Photo
Title
FK1 User ID
Description
Donation
PK Donation ID
Amount
FK1 User ID
Email Blast
PK Email ID
FK1 User ID
Subject
Body
Date
Announcement
PK ANC ID
Subject
Body
FK1 User ID
Date
Calander Event
PK Event ID
Title
Description
Date
Start Time
FK1 User ID
MB Reply
PK,FK1 MB ID
PK MBR ID
Subject
Body
FK2 User ID
Message Board
PK MB ID
Subject
Body
FK1 User ID
Discussion Board
PK DB ID
Subject
Body
FK1 User ID
Date
DB Reply
PK,FK1 DB ID
PK DBR ID
Subject
Body
FK2 User ID
Date
L
S
Alumni/Mentors
PK,FK1 User ID
Alumni?
Grad Year
Concentration
Career Position
Company of Employment
Job Description
Student
PK,FK1 User ID
Concentration
Mentor?
Class Taken
PK,FK2 User ID
PK,FK1 Class ID
Classes
PK Class ID
Class Name
Class Description
Semester

User

Field name	Data type	Constraint	Description
User ID	INT	PRIMARY KEY	The primary key for the user table
First Name	VARCHAR(50)	Null	The first name with a 50 character limit
Last Name	VARCHAR(50)	Null	The last name with a 50 character limit
Email	VARCHAR(65)	Null	The email with a 65 character limit
Gender Identity	VARCHAR(50)	Null	The gender identity with a 50 character limit
Ethnicity	VARCHAR(50)	Null	The ethinicity with a 50 character limit
Date of Birth	DATE	Null	The date of birth stored in julian date format
User Name	VARCHAR(50)	Null	The username with a 50 character limit
Password	VARCHAR(50)	Null	The password with a 50 character limit
Profile Picture	BLOB	Null	The profile picture stored in mysql blob format
Donor?	SMALLINT	Null	A bool value for if user has donated before stored in smallint where 0 is no and 1 is yes
Approved?	SMALLINT	Null	A bool value for if the user has been approved by an admin yet stored in smallint where 0 is no and 1 is yes
Admin?	SMALLINT	Null	A bool value for if the user is an admin and will be granted admin premissions stored in smallint where 0 is no and 1 is yes
UserType	CHAR(1)	Null	This the user type. L is for alumni S is for student it is stored with a single character limit

Alumni/Mentors

Field name	Data type	Constraint	Description
User_ID	INT	PRIMARY KEY, FOREIGN KEY	The foreign key from user that is also the primary key for Alumni/mentors that is stored as an int
Alumni?	SMALLINT	Null	A bool value for if user is Alumn stored in smallint where 0 is no and 1 is yes
Grad Year	DATE	Null	The date of graduation stored in mysql julian date format
Concentration	VARCHAR(50)	Null	The persons concentration stored with a 50 character limit
Career Position	VARCHAR(100)	Null	The persons job title stored with a 100 character limit
Company of Employeemnt	VARCHAR(100)	Null	The company where the person works with a 100 character limit
Job Desc	VARCHAR(1000)	Null	A brief description of what they do at their job with a 1000 character limit

Student

Field Name	Data Type	Constraint	Description
User ID	INT	Primary Key, Foreign Key 1	Primary Key that tells the identity of the user/student. Is a child of User
Concentration	VarChar(50)	Null	Tells the Concentration the Student is studying
Mentor?	Small INT	Null	Boolean Value that says if the students wants to mentor

Class Taken

Field Name	Data Type	Constraint	Description
User ID	INT	Primary Key, Foreign Key 1	User ID from student table. Middle table to connect classes and students.
Class ID	INT	Primary key, Foreign Key 2	Class ID from classes table. Middle table to connect classes and students.

Classes

Field Name	Data Type	Constraint	Description
Class ID	INT	Primary Key	Class number acting as the primary key
Class Name	VarChar(30)	NULL	Class name that describes the class
Class Description	VarChar(300)	NULL	Describes the purpose of the class in greater detail for the benefit of the uninformed reader.

Jobs

Field name	Data type	Constraint	Description
Job ID	INT	PRIMARY KEY	The primary key for the jobs table stored in a INT
User ID	INT	FOREIGN KEY	The foreign key from the user table stored in a int
Job Title	VARCHAR(100)	Null	The title of the job with a 100 character limit
Job description	VARCHAR(1000(	Null	The job description with a 1000 character limit

Donation

Field Name	Data Type	Constraint	Description
Donation ID	INT	Primary Key	Indicates which donation this is.
Amount	VarChar(10,2)	NULL	Indicates the amount the donation is for.
User ID	INT	Foreign Key	Indicates the person who donated it.

Photo Carousel

Field name	Data type	Constraint	Description
Photo ID	INT	PRIMARY KEY	The primary key for the photo carousel table stored as an INT
Photo	BLOB	Null	The picture stored in mysql blob format
Title	VARCHAR(50)	Null	The title of the picture with a 50 character limit
User ID	INT	FORIGEN KEY	The foreign key from the user table stored as int
Description	VARCHAR(255)	Null	The description of the photo in the carousel with a 255 character limit

Email Blast

Field Name	Data Type	Constraint	Description
Email ID	INT	Primary Key	Primary Key for the Email Blast table
User ID	INT	Foreign Key	Foreign Key showing the Author of the table
Subject	VarChar(300)	NULL	VarChar with a 300 character limit showing the subject of the email
Body	Varchar(100000	NULL	VarChar with a 100,000 character limit showing the body of the email.

Discussion Board

Field Name	Data Type	Constraint	Description
DB ID	INT	Primary Key	Indicates which discussion board this is.
Subjet	VarChar(300)	NULL	A brief over view of what the board is about.
Body	VarChar(10000)	NULL	The body of text in the discussion board
User ID	INT	Foreign Key 1	The author of the discussion board.
Date	DATE	NULL	Date of discussion board creation stored as DATE

DB Reply

Field Name	Data Type	Constraint	Description
DB ID	INT	Primary Key Foreign Key1	Indicates which discussion board this is.
DBR ID	INT	Primary Key	Indicates which discussion board reply this is.
Subject	VarChar(300)	NULL	A brief over view of what the board is about.
Body	VarChar(10000)	NULL	The body of text in the discussion board
User ID	INT	Foreign Key 2	The author of the discussion board reply
Date	DATE	NULL	Date of Discussion board reply creation stored as DATE

Message Board

Field name	Data type	Constraint	Description
MB ID	INT	PRIMARY KEY	The primary key for the message board stored as an int
Subject	VARCHAR(100)	Null	The subject of the message board with 100 character limit
Body	VARCHAR(10000)	Null	The body of the message board with a 10000 character limit
User ID	INT	FORIGEN KEY	The foreign key from the user table stored as int

Message Board Reply

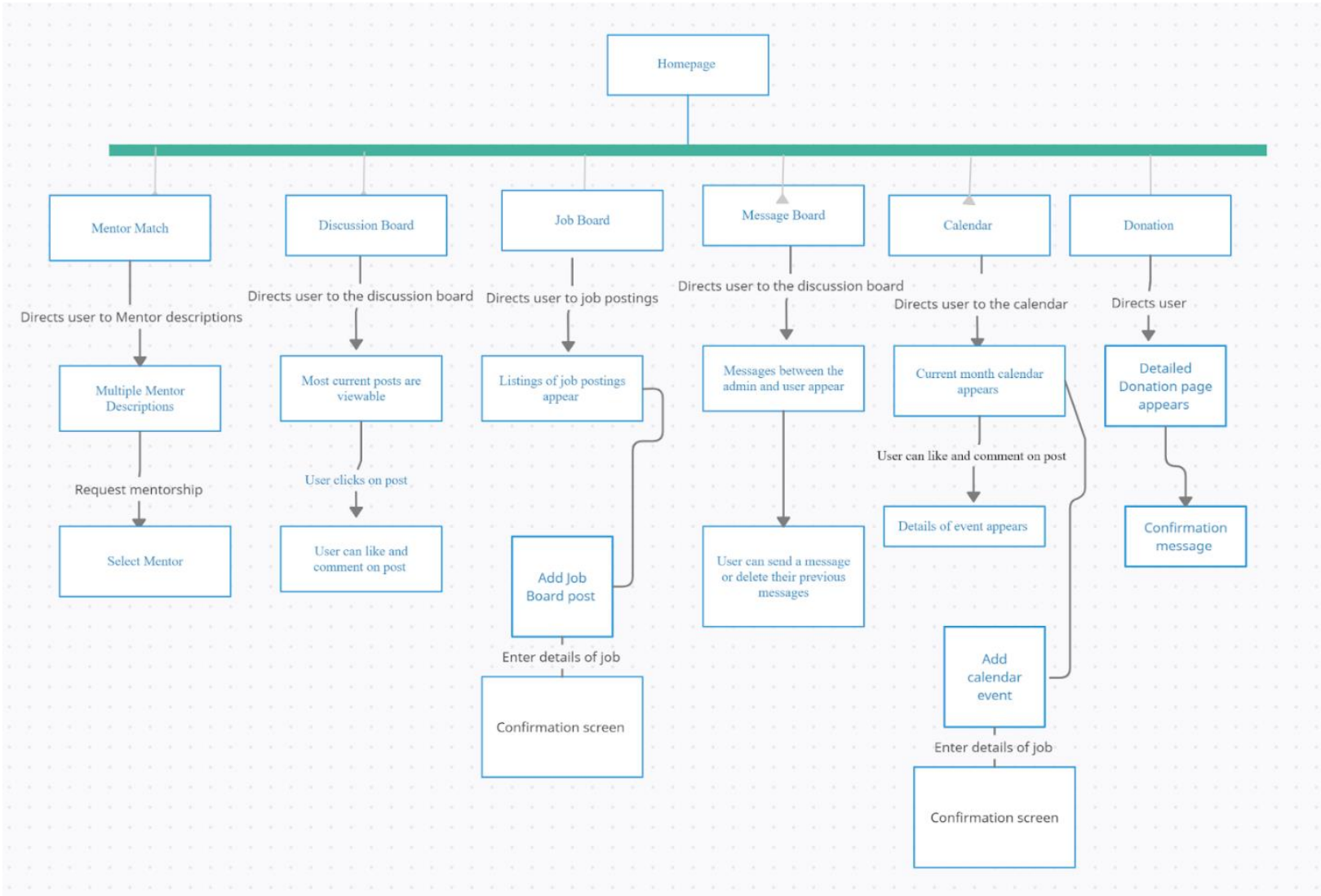
Field name	Data type	Constraint	Description
MB ID	INT	PRIMARY KEY, FOREIGN KEY	The foreign key from message board that is part of a composite primary key for message board reply that is stored as an int
MBR	INT	PRIMARY KEY	The second part of the composite primary key for message board reply stored as an int
Subject	VARCHAR(100)	Null	The subject of the reply with 100 character limit
Body	VARCHAR(10000)	Null	The body of the message board with a 10000 character limit
User ID	INT	FORIGEN KEY	The second foreign key from the user table stored as int

Announcement

Field Name	Data Type	Constraint	Description
ANC ID	INT	PRIMARY KEY	Primary Key for the announcement table stored as INT
Subject	VARCHAR(100)	NULL	Subject of the announcement for easy parcing stored as VARCHAR with 100 Character limit
Body	VARCHAR(10000)	NULL	Body of the announcement with details stored as VARCHAR with 10000 Character limit
User ID	INT	Foreign Key	Author of the Announcement stored as INT
Date	Date	NULL	Date Announcement was posted stored as Date

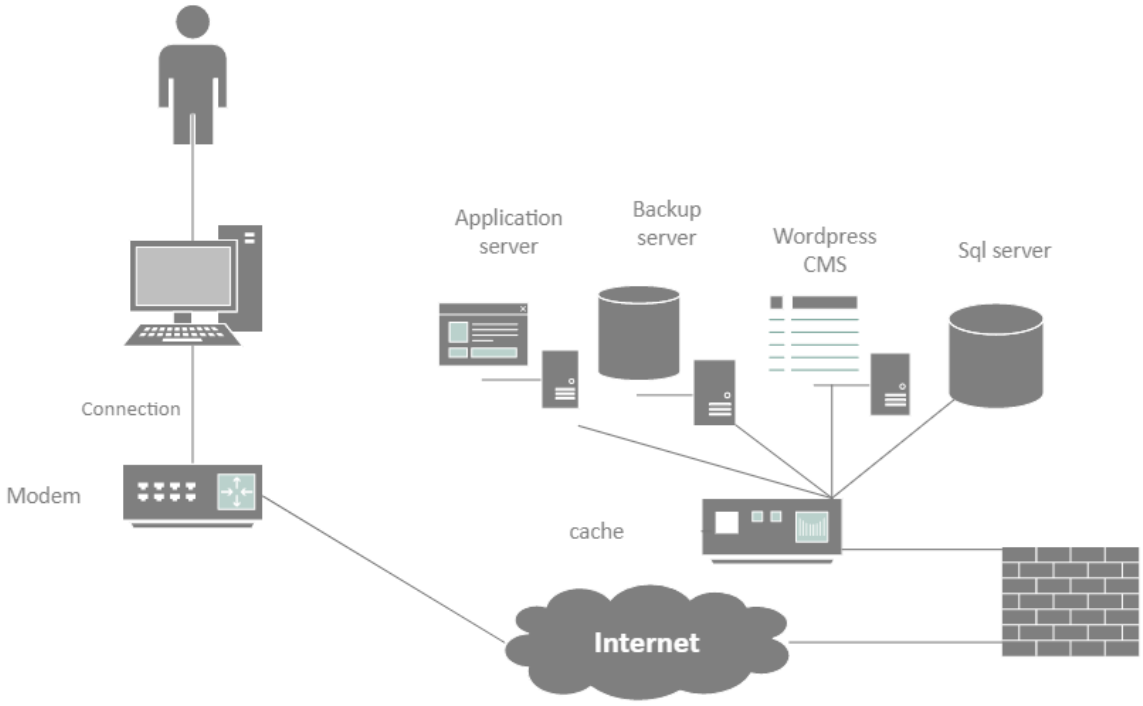
Windows Navigation Diagram

This is our Windows Navigation Diagram. It starts with the main landing page, the homepage. Then it shows all the options that the user can navigate to from the home page. Then, the diagram shows the features of each webpage and what the abilities are of each page.


Homepage
Mentor Match
Discussion Board
Job Board
Message Board
Calendar
Donation
Directs user to Mentor descriptions
Directs user to the discussion board
Directs user to job postings
Directs user to the discussion board
Directs user to the calendar
Directs user
Multiple Mentor Descriptions
Most current posts are viewable
Listings of job postings appear
Messages between the admin and user appear
Current month calendar appears
Detailed Donation page appears
Request mentorship
User clicks on post
User can like and comment on post
Select Mentor
User can like and comment on post
Add Job Board post
User can send a message or delete their previous messages
Details of event appears
Confirmation message
Enter details of job
Add calendar event
Confirmation screen
Enter details of job
Confirmation screen

Physical Architecture Design

Here is our network model depicting our psychical network design. It starts with the user connecting to the internet in our case with a desktop connected to their modem to access it. The user's connection to the cobweb then has to pass through the firewall where it then will be connected to a cache which connects to it all the different servers.



Design procedures for Security Concerns and Non-Functional Requirements

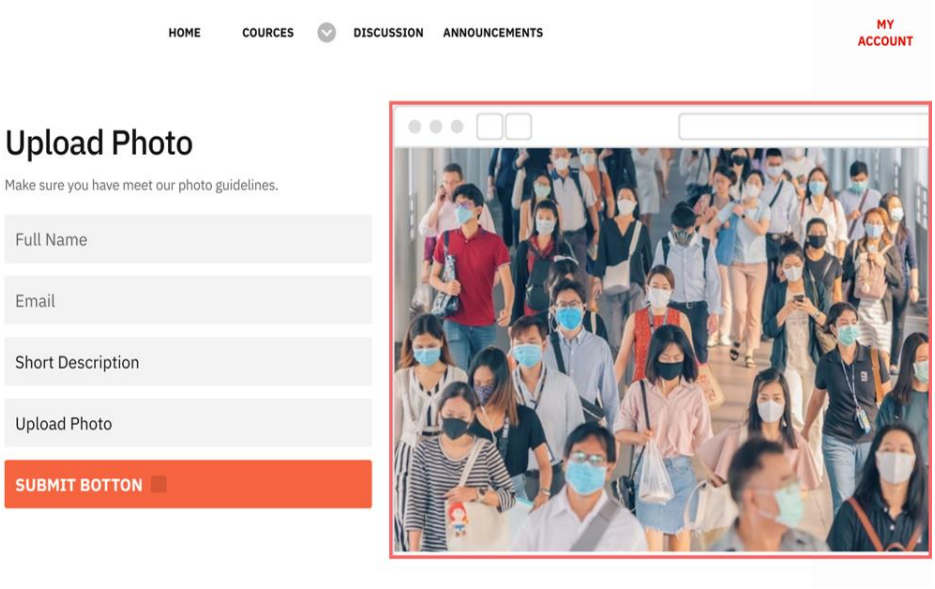
To maintain security within this website, we will be connecting it to the university's ecosystem and therefore the university's firewall. The most secure data that we capture is the name, email, and date of birth of users within the site. While we do accept donations, we will never keep credit card information within our own database. The payment will be through Venmo which is owned by paypal and they will be liable for any card information leaks.

The system will require a CMS. We've chosen WordPress for this task seeing as they are an open-source tool that allows for great adaptability within the site and a high volume of users that are satisfied with their product. Our hosting service dream host offers daily backups of the site, a control panel and support within the hosting service.

Gantt chart

ID	Task Name	Start	Finish	Duration	Task Assignment
1	**Assignment 1**	1/14/2021	1/24/2021	11d	Whole group
2	**Assignment 2**	1/28/2021	1/31/2021	4d	Whole group
3	**Iteration 1**	1/26/2021	2/4/2021	10d	Whole group
4	System Request	1/26/2021	1/26/2021	1d	Bradley Layten
5	Narrative	1/26/2021	2/1/2021	7d	Vidhi Desai
6	Process Models	1/26/2021	1/30/2021	5d	Bradley Layten
7	Vision Document	1/26/2021	1/26/2021	1d	Alex Tran/Jacob Forcht
8	Agile Stories	1/26/2021	2/3/2021	9d	Kali Mchugh
9	Team Charter	1/26/2021	2/3/2021	9d	Kali McHugh
10	**Iteration 2**	2/9/2021	2/18/2021	10d	Whole Group
11	Vision Document	2/9/2021	2/12/2021	4d	Alex Tran/Jacob Forcht
12	System Requirements	2/9/2021	2/13/2021	5d	Bradley Layten
13	List of Use Cases	2/9/2021	2/13/2021	5d	Bradley Layten
14	Initial Architecture Considerations	2/9/2021	2/15/2021	7d	Vidhi Desai
15	Risk Analysis	2/9/2021	2/14/2021	6d	Kali Mchugh
16	Gantt Chart	2/9/2021	2/17/2021	9d	Kali Mchugh
17	Inception Phase Prototype	2/9/2021	2/14/2021	6d	Alex Tran/Jacob Forcht
18	**Assignment 3**	3/11/2021	3/21/2021	11d	Individual Work
19	Use Cases	3/11/2021	3/21/2021	11d	Individual Work
20	Use Case Diagram	3/11/2021	3/21/2021	11d	Individual Work
21	Prototypes	3/11/2021	3/21/2021	11d	Individual Work
22	Class Diagram	3/11/2021	3/21/2021	11d	Individual Work
23	Sequence Diagram	3/11/2021	3/21/2021	11d	Individual Work
24	**Iteration 5**	3/30/2021	4/11/2021	13d	Whole Group
25	Class Diagram	4/1/2021	4/1/2021	1d	Jacob Forcht, Bradley Layten
26	Database Design and Data Definitions	4/6/2021	4/9/2021	4d	Jacob Forcht, Bradley Layten
27	User Interface, Navigation Diagram and Screen Layouts	4/5/2021	4/8/2021	4d	Vidhi Desai, Kali McHugh
28	Gantt Chart	4/5/2021	4/7/2021	3d	Alex Tran
29	Use Interface Prototype	4/7/2021	4/10/2021	4d	Vidhi Desai
30	**Elaboration Spec**	4/15/2021	4/27/2021	13d	Whole Group
31	Database Design and Data Definitions	4/15/2021	4/27/2021	13d	Whole Group
32	User Interface, Navigation Diagram and Screen Layouts	4/15/2021	4/27/2021	13d	Whole Group
33	Physical Architecture Design	4/15/2021	4/27/2021	13d	Whole Group
34	Design Procedures for Secrity Concerns and Non-functional requirements	4/15/2021	4/27/2021	13d	Whole Group
35	Gantt Chart	4/15/2021	4/27/2021	13d	Alex Tran
36	Elaboration Phase Prototype	4/15/2021	4/27/2021	13d	Whole Group

Prototypes


HOME
COURCES
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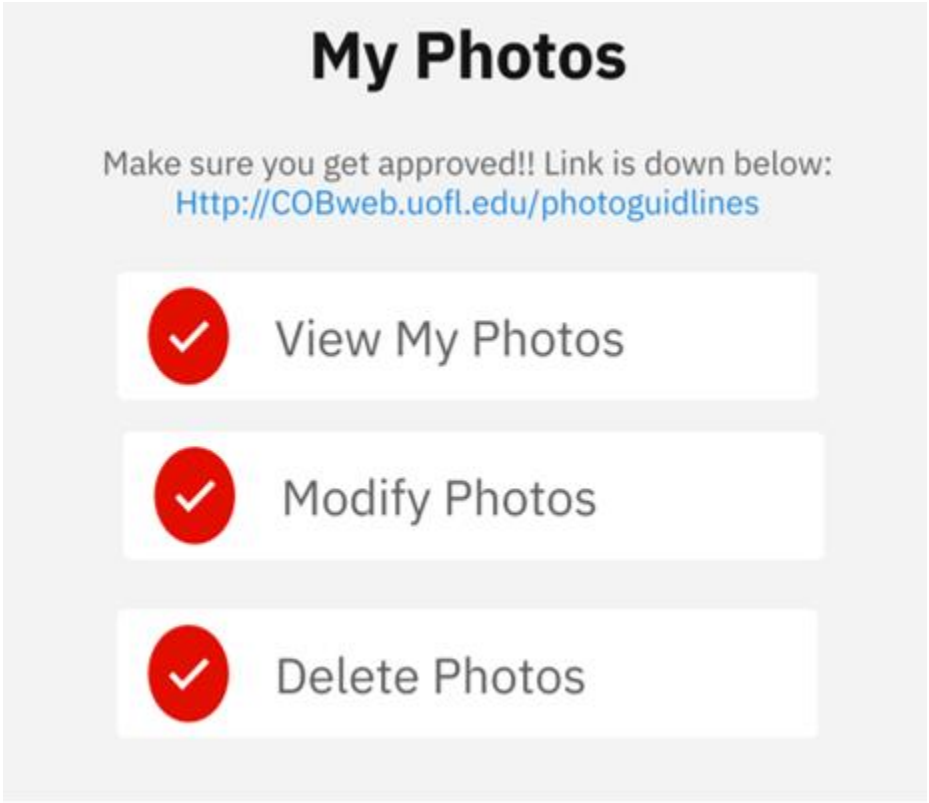
ANNOUNCEMENTS
MY ACCOUNT
Upload Photo
Make sure you have meet our photo guidelines.
Full Name
Email
Short Description
Upload Photo
SUBMIT BOTTON


My Photos
Make sure you get approved!! Link is down below:
Http://COBweb.uofl.edu/photoguidlines
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Donating:

$128

one time payment

- To the CIS Program
- Help College Kids
- Help sustaine the program
- Tax Cut
- Provide Material
- Makes Website

Here are some other Alumni who had already donated:

- JANE DOE: Alumni Class of 98'
- JOHN DOE: Alumni Class of 87'
- JANE SMITH: Alumni Class of 05'

Donate Now

This contribution can be very helpful in getting specfic networking capabiities and helps keep the CIS program still alive.

FULL NAME

Text

PHONE NUMBER

(_ _ _) - _ _ _ - _ _ _ _

DONATION AMOUNT

$_ _._ _

E-MAIL ADDRESS

_____@_____.com

By clicking you agree to the Terms and Conditions

SUBMIT

Need a help?

The CobWeb

Home | Classes | Announcements | View Carousel | Upload | My Photos

Photo Album for 2021






Announcements

All you need to know about upcoming events!

Title Description Date & Time Place	**Title** Description Date & Time Place	**Title** Description Date & Time Place	**Title** Description Date & Time Place
Title Description Date & Time Place	**Title** Description Date & Time Place	**Title** Description Date & Time Place	**Title** Description Date & Time Place

Upload Announcement

Please Select User Type

Student Alumni/Mentor

Submit Cancel

First Name

Last Name

Louisville Email Address

Biz Process Web Dev Info Sec Minor

Under Classmen Upper Classmen

Ethinicity Gender Identity DOB

Monday, March 15, 2021

Willing to be mentor?

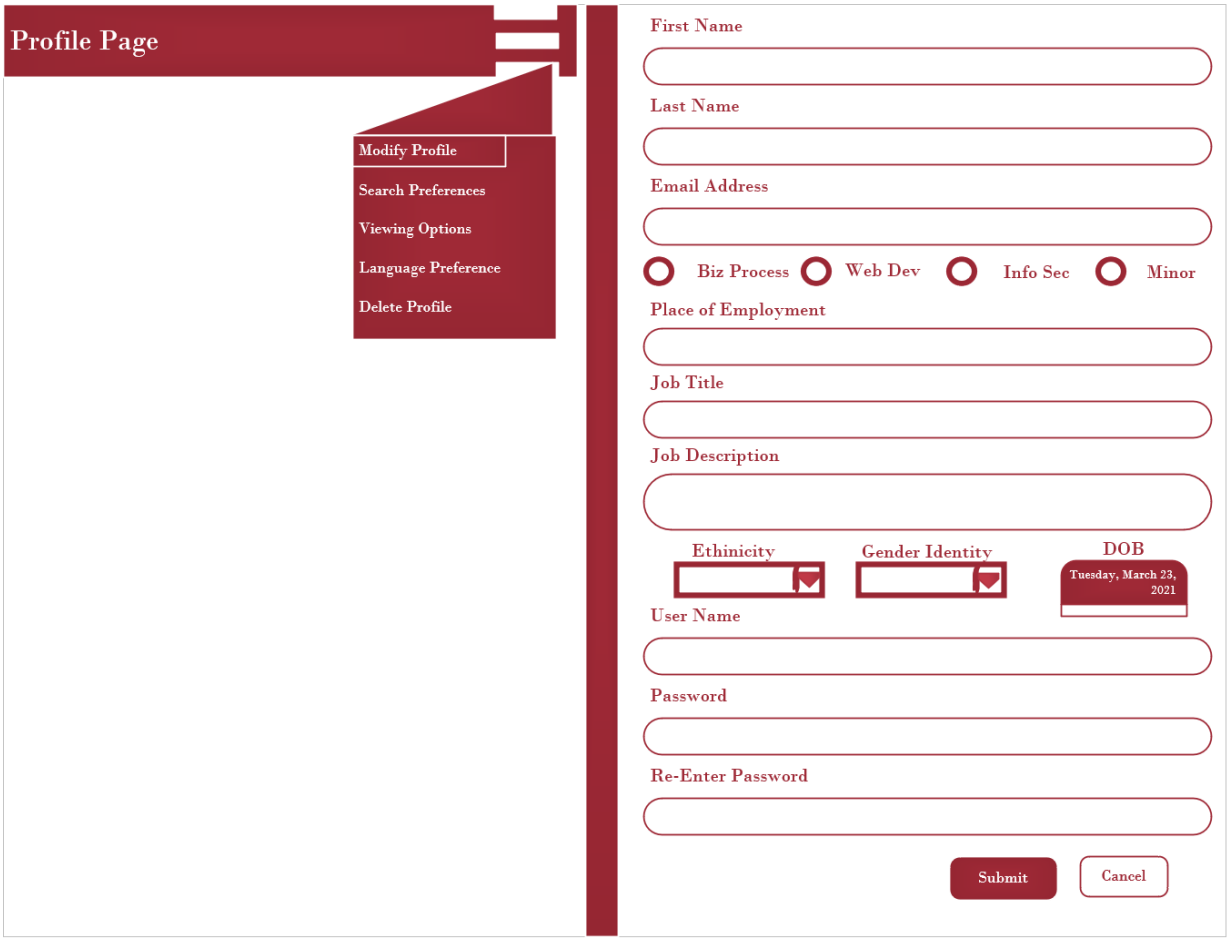
Select All Classes Taken From This Pool

User Name

Password

Re-Enter Password

Submit Cancel


Profile Page
Modify Profile
Search Preferences
Viewing Options
Language Preference
Delete Profile
First Name
Last Name
Email Address
Biz Process
Web Dev
Info Sec
Minor
Place of Employment
Job Title
Job Description
Ethinicity
Gender Identity
DOB
Tuesday, March 23, 2021
User Name
Password
Re-Enter Password
Submit
Cancel

User Information:

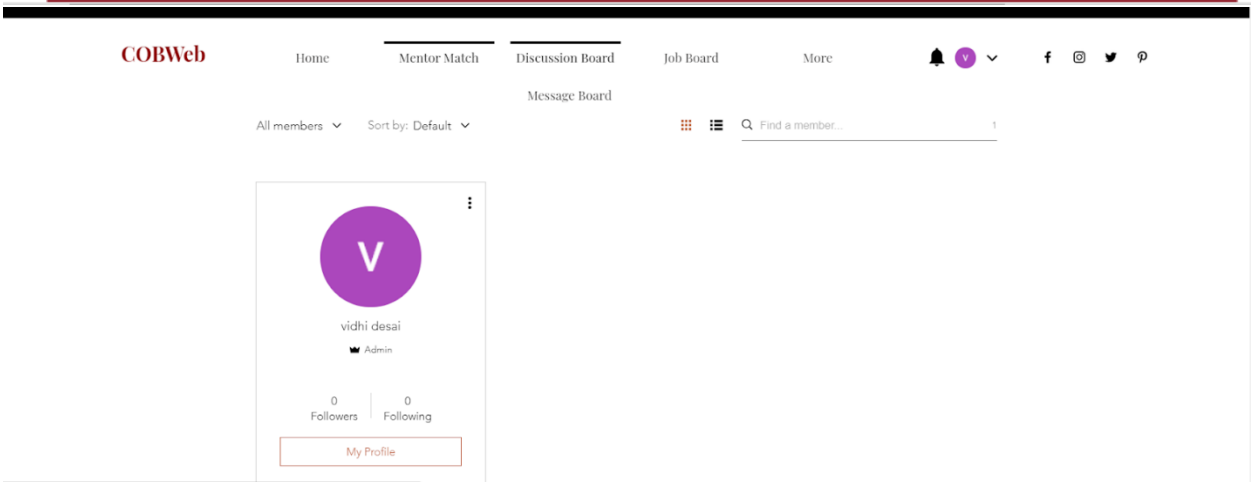
Accept

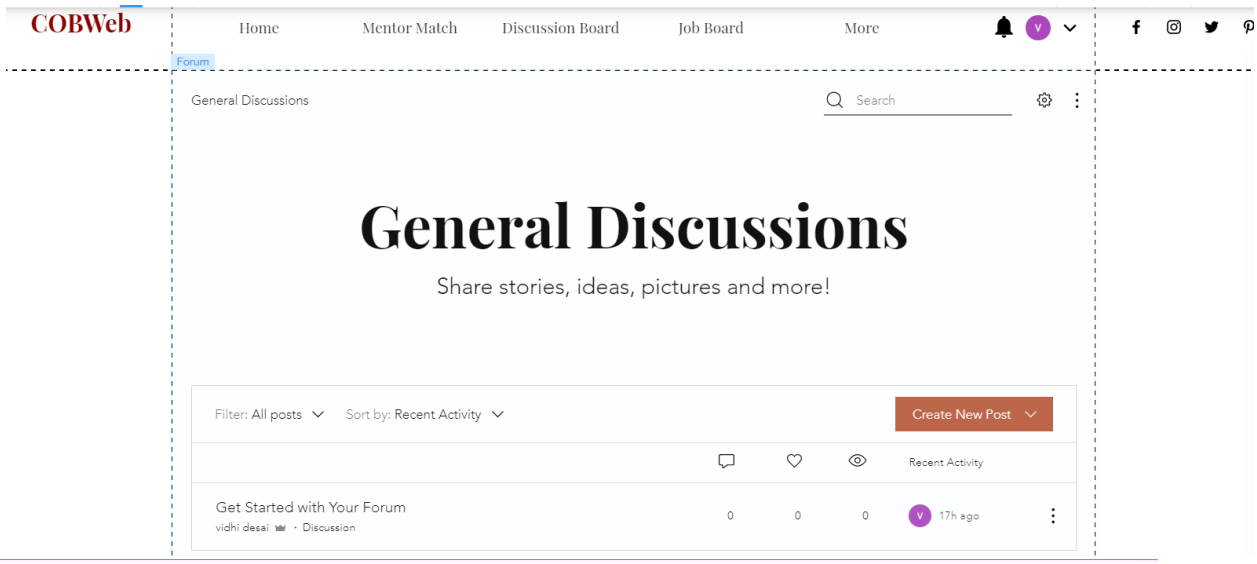
Reject

Confirm Acceptance of Profile

Confirm

Cancel

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Sort by: Recent Activity
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Recent Activity
Get Started with Your Forum
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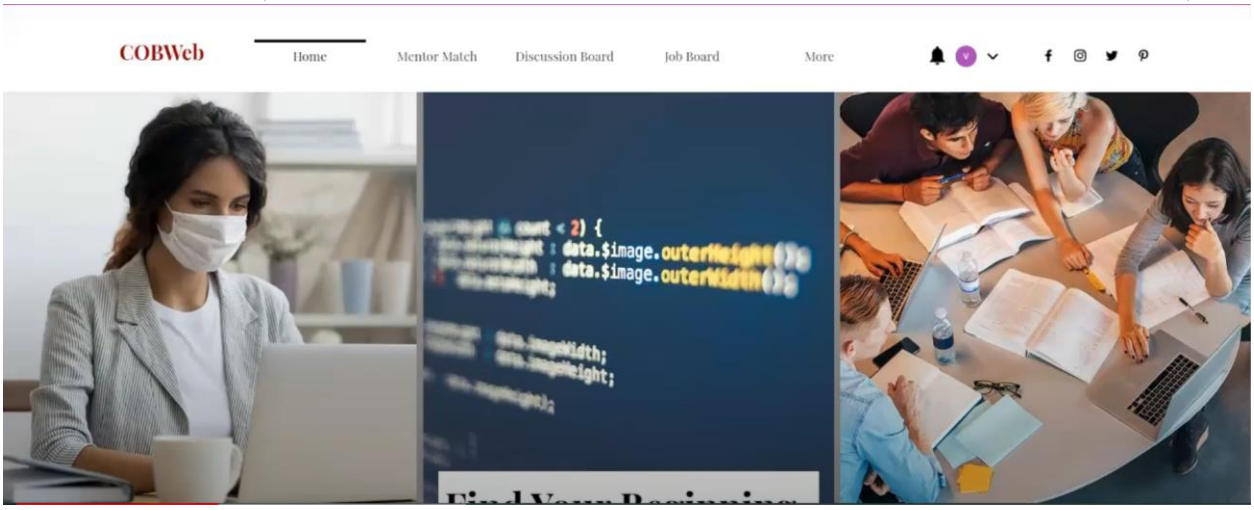
17h ago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