PCSE Student-Alumni Connection System

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Current system description

• This system was designed as a platform for current PCSE students and alumni to connect.

• The idea for this system stemmed from the fact that the only way for students and alumni to connect was through Clair Dorsey.

Project Planning and Schedule

Full Project Schedule(Fall)

Sep 20, 2022

- Determine project schedule for the length of the project
- Create interview questions for Internal stakeholders
- Create questionnaires for all stakeholders.

Oct 1, 2022

- Meet with Dr. Riedl and interview (if possible)
- Meet with Clair Dorsey and interview (if possible)
- Meet with Clare Maliniak and interview (if possible)
 - If unavailable we can move on and Interview at another time.

Oct 14, 2022

- Have all requirements figured out
- Determine all the use-cases for the system
- Develop workflows for use-cases

Oct 24, 2022

• Design User Interface for connecting with Alumni and External Stakeholders

Oct 31, 2022

• Design the database that will hold all this information

Nov 14, 2022

- Have a detailed structure design in place
- Create pseudo code

Nov 30, 2022

• Revise project and create presentation at end of semester

Requirements Gathering

Internal Stakeholders

- People who are involved in the organization directly
- Who?
 - Clair Dorsey (Outreach Coordinator)
 - Dr. Riedl (Department Chair)
- How?
 - Interview

Operational Stakeholders

- People who interact with the system regularly
- Who?
 - Students
 - Alumni
- How?
 - Questionnaire

Requirements Gathering: Major Internal Stakeholders

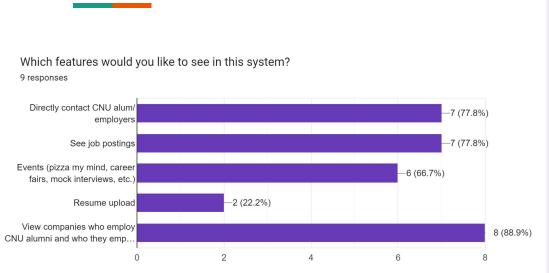
Clair Dorsey

- 1. Can you describe the current system in place that allows CNU students to connect with CNU alumni?
- Wished there was another way other than her putting a student in direct contact with an alum
- She is the middle man between alumni and students and companies

Dr. Riedl

- 1. How to separate from Handshake?
- It would already be different from a linked hand handshake since we don't really want a job.
- Like discord. But more organized. Like in between. Google alumni platforms.
- Look for advice on choosing between two different job offers
- 2. What kind of information should be available for people on the platform?
- Enter relationship with mentors and mentees, Department goes in and sees matches and initiates mixer events
- List classes they took

Requirements Gathering: Operational Stakeholders



Your a	answer
Which	h features would you like to see in this system? *
	Directly contact CNU alum/employers
□ s	See job postings
	Events (pizza my mind, career fairs, mock interviews, etc.)
□ F	esume upload
□ v	/iew companies who employ CNU alumni and who they employ
	ther:
Anyth	ning else you would like to see? Suggestions?
Your a	answer
Would	d you be willing to use a system like this? *
OY	/es
_	No.

Use Cases

Subsystem 1: Accounts

Approve New User Request	Manually approve new user who is not on the approved user list	Create community	Create communities for students and alumni to jo
Remove User	Remove user from the system due to either customer request or an administrator decision	Remove Community	Make a community no lo exist in the system
Modify Approved User List	Editing, removal, or adding of users to overall user list		
Create account (alumni)	Set up an alumni account by entering name, email, current employer, profile image, grad year, and contact availability.	Join Community	Students or Alumni can community to have a mentor/mentee with an alumni/student
Edit Profile Add/change current major/minor Add/change grad year Toggle Contact availability Add/change profile image Add student ID (private) Add email (private)		Leave Community	Leave community and br connection with alumni
Search for Alumni	Search for alumni in the field that the student wishes to pursue		

Subsystem 2: Communities

Create community	Create communities for students and alumni to join
Remove Community	Make a community no longer

	exist in the system
Join Community	Students or Alumni can join a community to have a mentor/mentee with an alumni/student
Leave Community	Leave community and break

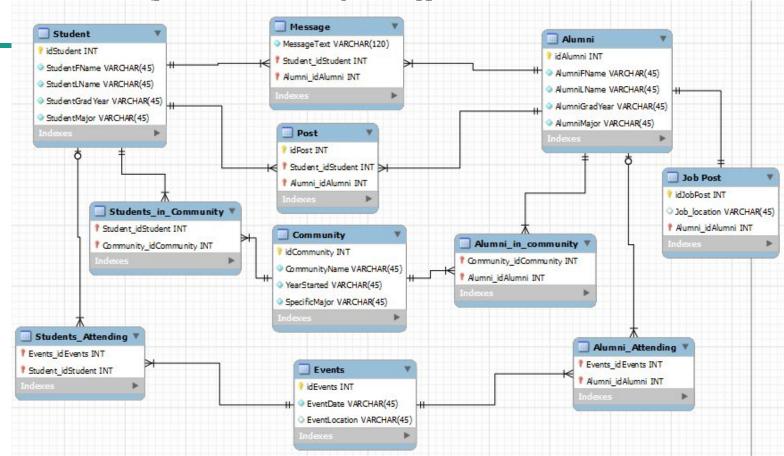
Use Cases

Subsystem 3: Messaging

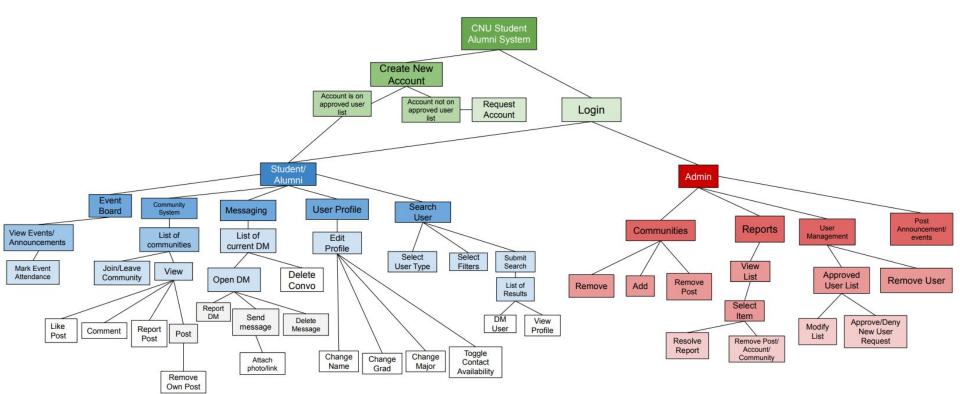
Use Cases	Description	
Direct Message student/alumni	Direct message a student or alumni	
Delete conversation	Delete messages between student and alumni	
Report messages	Report message for harmful or inappropriate content.	
Investigate reported message	Administrator takes action over reported post/message	

Use Case Name	Remove User				
Scenario	A user wants out of the system or is being removed by the admin because of harmful actions.				
Brief Description	Remove user from the system due to either customer request or an administrator decision				
Actors	Admin, Student/Alumni(making the request)				
Related Use Cases	Modify User List, Investigate Report				
Postconditions	User who was deleted no longer has login access. Users are removed from all communities they are a part of. Database marks user as terminated				
Flow of activities	Actor	System			
	1- Alumni/Student requests to delete their account	1a-Request is sent to admin and system			
	2-Admin deletes the user	2a-Admin sends a message to the system to remove the user.			
	3-Alumni/Student reports another user	3a-Report is received by admin			
	4-Admin chooses to remove user	4a-Admin sends a message to the system to remove the user.			
Exceptions Conditions	If a User is reported and there is not substantial evidence that they should be removed they will not be removed. If a user requests to be deleted, it will be done				

Physical Entity Relationship Diagram



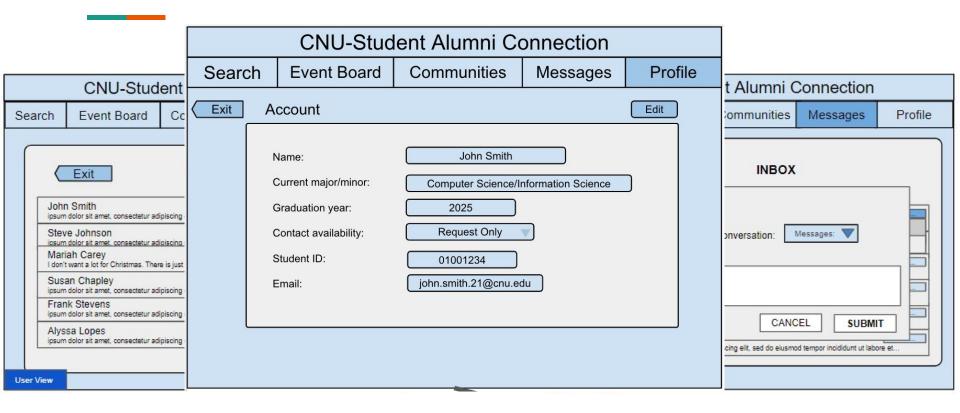
Structure Chart



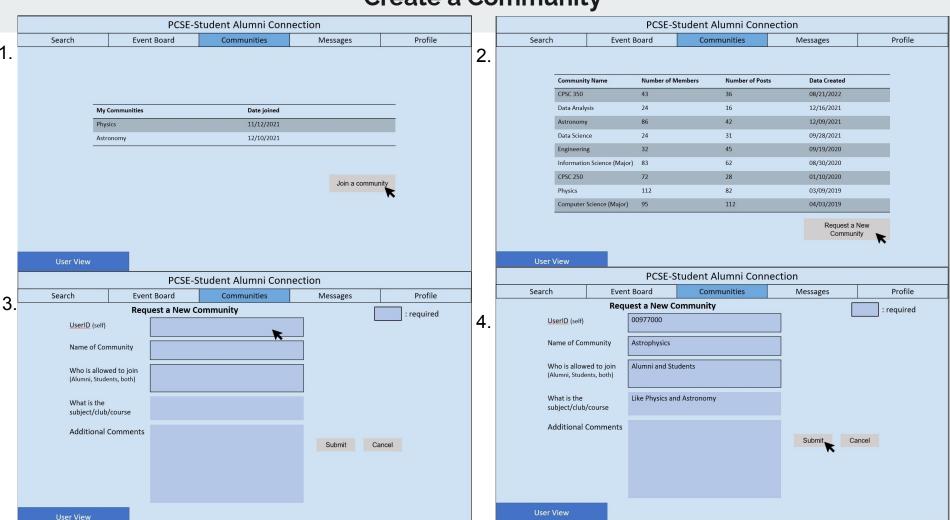
Model Pseudocode | Messaging

```
Begin User: Messaging
      DISPLAY list of user's Conversations (newest at the top)
      IF user clicks "More":
                    DISPLAY "Report" button
                    DISPLAY "Delete" button
                    IF "Report" is clicked:
                           PROMPT user to fill in report information and submit
                    IF "Delete" is clicked:
                           REMOVE conversation from database
      IF {User Account} is clicked:
             DISPLAY User information (other user's profile information)
      IF a conversation is clicked:
             DISPLAY messages
             IF Message field is not empty AND "Send" is clicked:
                    ADD Message to database
             IF User right-clicks on Message:
                    DISPLAY "Delete Message"
                    IF User selects "Delete Message":
                           REMOVE message from conversation
```

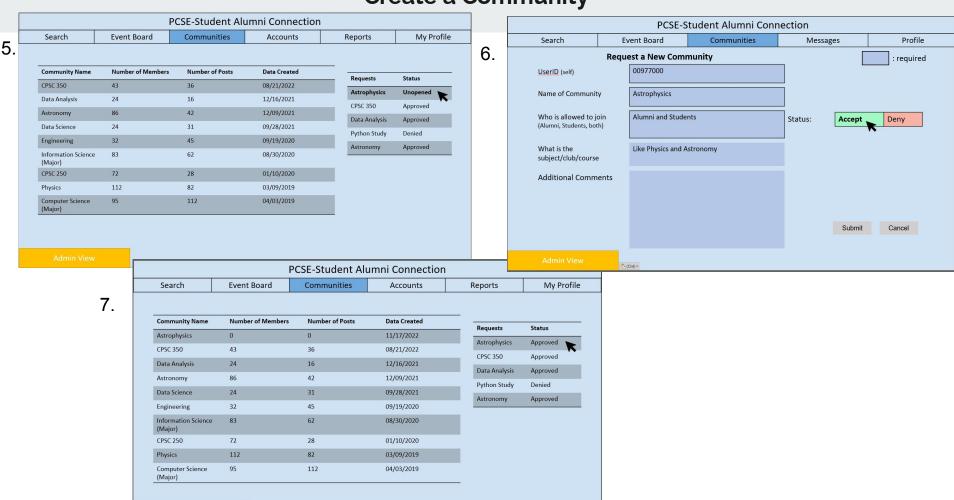
User Interface Storyboard



Create a Community



Create a Community



Conclusion

- This system seeks to solve the problem of not being able to find and contact PCSE alumni
- It will solve this by providing a system to search for and message alumni, as well as find communities of students and alumni that fit your interests.

The next steps are beginning to develop the system and create the database.