Project Proposal: Ch@t

This is a chat room application where students are able to join a particular chat room when the lecture time begins. Each chat room is a particular lecture. For example, there will be a CSC309 chat room that goes live when the CSC309 lecture begins on Thursday at 1PM. This application serves students mainly because they can ask questions and get answers in real time without disrupting lecture flow. A typical use case could be a simple clarification of what is written on the board which can be answered by a student in the front row.

Since the application will be used in an educational setting, we will have two levels of administrators. The first level are the course instructors, TAs who will have privileges of blocking users in the chat room, delete messages. Note that the students are allowed to chat only during the live hours of the chat. However, they will be able to view the messages from the previous time. If time permits, we are thinking of adding features such as suggestions, tags that classify what kind of message a message sent by a user is that can be sent at real time but only visible to the instructors. Other features include being able to filter by the tags mentioned before.
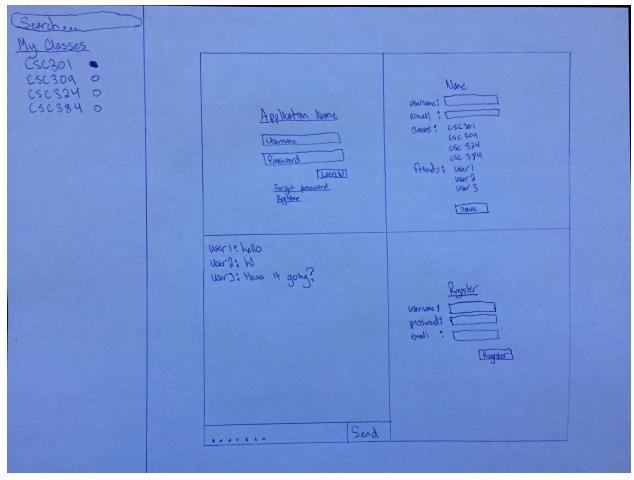
- Profiling:
  - Can enter chat room as anonymous or as your profile
  - Show the classes the user is enrolled in
  - Update their personal information
  - Admins can block people from chat room
  - Admins can write announcements for the whole class
- User Authentication and Authorization:
  - Users can authenticate locally or through third party services
- Search:
  - Search through your own registered classes
  - Search to add class to your own profile
- Data:
  - Chat rooms, course list
  - Tags (question, suggestion, etc)
  - Show upcoming chat rooms
  - Can see users in a particular chat room
  - Automatic filtering of bad words
- Views:
  - Landing page
  - Profile
  - Chat room
  - Create account
- Admin:
  - Course Instructor Level
    - Block students

- ○ Site Admin Level
  - ■ Changing passwords
  - ■ Add user
  - ■ Update user
  - ■ Delete users

If we have time:

- Search for specific questions/things in course chat
- Filtering through tags (question, suggestion, etc)
- Thumbs up/like comments
- Professors can ask questions

This is a rough outline of what we expect our application to look like. On the left you can see the user's classes as well as possible actions while on the right the screen will look different depending on which screen they are on. Each frame on the right side pertains to a different screen. The right side of the application is going to be the main part that will change.