**Chatroom Assignment**

**Assignment:**

Chatroom Team Project

Online-chatroom

This is a three person team assignment which will have the students create a complete online chat solution utilizing React, Redux, NodeJS and ExpressJS. Once again, the interface is completely your team's choosing. Your chatroom will feature a home page, an about page and finally the full chatbox page!

Teams for this project are as follows:

1. Alex, Shawn, Rison

2. Bowen, Katie, Steve

3. Trevor, Taylor, Anthony

4. Solomon, Ethan, Dustin

Technologies Required

- React

- React Router

- Redux

- NodeJS

- SocketIO

- ExpressJS

- React Bootstrap

Home Page Requirements

Please choose a theme and make the homepage based on that theme.

1. Just some general information about what your chatbox discussion is for.

2. A general navigation element at the top, as well as making the homepage look as graphically nice as possible.

About Page Requirements

1. Just another about page which includes the three author's information.

Chatbox Requirements

1. The user should be able to access the site and see a general chatroom that they can access.

2. They can optionally choose to create their own chatroom that users will be able to see.

3. They should be able to set their chatroom to private or public, the private version only being accessible by using a specific code.

4. After selecting a chatbox, the user can set their own username for the chatroom.

5. They can set their own avatar as well.

6. You can type into the chatbox and have a conversation (this is demonstrated with your partners).

7. The user should be able to select a background color for their messages and it automatically makes the text either white or black.

8. All users should be able to see who is in the chatroom (a list of users somewhere on the interface).

Bonus #1

Make the chatroom even better by creating "private messages" between two users. You can click their username from the list of users and then select "private message" to open a private message with the user. You can then type and have a private conversation.

Bonus #2

Even further improve the chatbox by adding a "{Username} is typing..." indicator to the chatbox system. So if someone is typing, it should show they're typing. If multiple people are typing, it should show the first two and then say "{firstUsername}, {secondUsername} and {x} others are typing..." to signal that multiple users are typing.

Example: "Tony, Jennifer, and 5 others are typing..."

Teams will present this project Friday January 21st!!

**Chatroom Components & Features:   
Tasks:**

**Management Tasks:**Making and keeping a schedule  
Regularly scheduling and attending meetings based on the schedule  
Assigning tasks to team members  
Documenting what was done in each meeting  
Keep track of progress and regularly inform higher-ups of project status

**Presentation:**

Making a presentation script.   
Presenting on the chatroom app’s unique appearance and features as a team.

**Required Tasks:**   
Create a Homepage  
Create a Navbar  
Create an about us page  
Create a chatroom page  
Create ability to set name and avatar  
Create ability to create chatroom   
Create ability to set chatroom to public or private  
Create admin (lets us delete posts or rooms we don’t like, create new chatrooms etc. )   
Create ability to change background color/text color  
Create ability to have conversation  
Create ability to show list of users in room   
  
**Bonus Tasks:**Create private messages capability Create ability to see who is typing  
 **Team Tasks:**Have ability to change colors include more backgrounds, text colors as and entire theme   
Create ability to change text size  
Create log in page  
create profile page  
Create gamification features like levels and rewards for users and rooms   
Create certain themes/backgrounds, avatar frames etc.. that are limited to certain levels (roles?)  
Create an actual game? At least a gif for about page