

Rowan Chat Room Project

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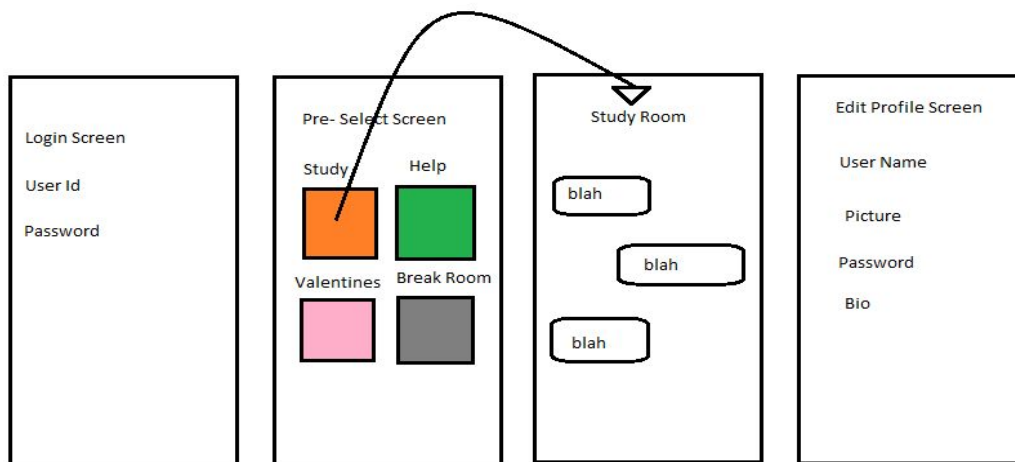
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GitHub: <https://github.com/smytht5/chatroomproject>

Slack: <https://senior-project-rowan.slack.com>

Project summary:

The Rowan Chat Room will be an Android mobile application which aims to give students a space to communicate with like-minded users. By providing a text-based chat room to individuals on Rowan University's campus, we will provide users an opportunity to communicate with each other to organize events, ask for directions, share study tips, and more.



Project goals:

- Connect students within Rowan University
- Create an application which supports text chat between users
- Application will have simple and intuitive user interfaces
- Create channels which focus around student needs

The goals of this application are to give a platform to students where they are able to chat with one another over various student topics. With event driven rooms we can drive talk about various subjects going on in the world today, or even just provide an application to open up when a student is bored. This project aims to break down the walls of a traditional classroom and expand. When the project is complete, there should be a simple interface and within a few clicks a student can be in the room typing away.

Product features:

- Text chat
- Event driven rooms
- Direct messaging

Specification version 1.01

The text chat will be first in first out style. If someone says something and clicks send, it shows on everyone's device ASAP with sender's username. Event driven channels would be chat rooms that have a certain calendar duration they stay up and they would be specific to some event, holiday, campus, etc. The channels are only allowed to be made by administrators. This is simple enough since it is just some more space on the server and uses the same login. Aside from event driven channels other channels like study room, break room and help room could be created. Direct messaging would be facilitated when someone clicks on another user in the chat room and clicks a button that says "message directly" and it will create a chatroom with permissions that allow only the 2 users to access it and they will no longer need to be in close proximity to chat.

Limitations:

- Server space
- Group behavior
- Viability of peer to peer hardware (wireless) connections

Users will have to sign up with an account; this is to prevent people from causing mischief in the chat room because they are "traceable." Rowan affiliates will have to use their Rowan login. By having students use their Rowan login we will have some authentication either through elvis or Google. Each room will have a cap of 30 users at a time to prevent server overload which would slow down the servers.

Stretch goals:

- Voice chat functionality
- Expanding to other universities or areas
- Bluetooth connectivity
- Translation features
- User authentication using the Rowan CAS