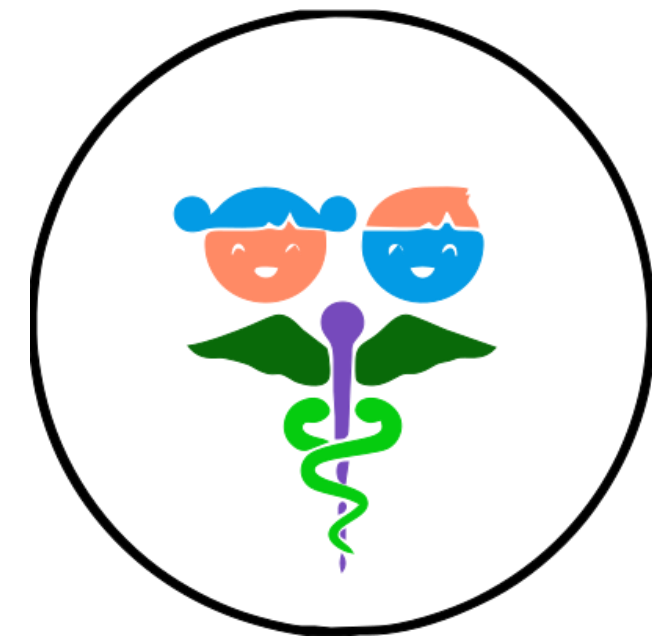




Pediatric Emergency Medicine App

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Problem

Healthcare workers in pediatric emergency medicine are faced with emergencies in their day-to-day which require quick access to information to be able to facilitate immediate decision making and save patient lives. This project aims to benefit the healthcare workers by providing information quickly and easily for details about common medical emergencies. The app also serves as a communication tool between the healthcare workers for more efficient communication.

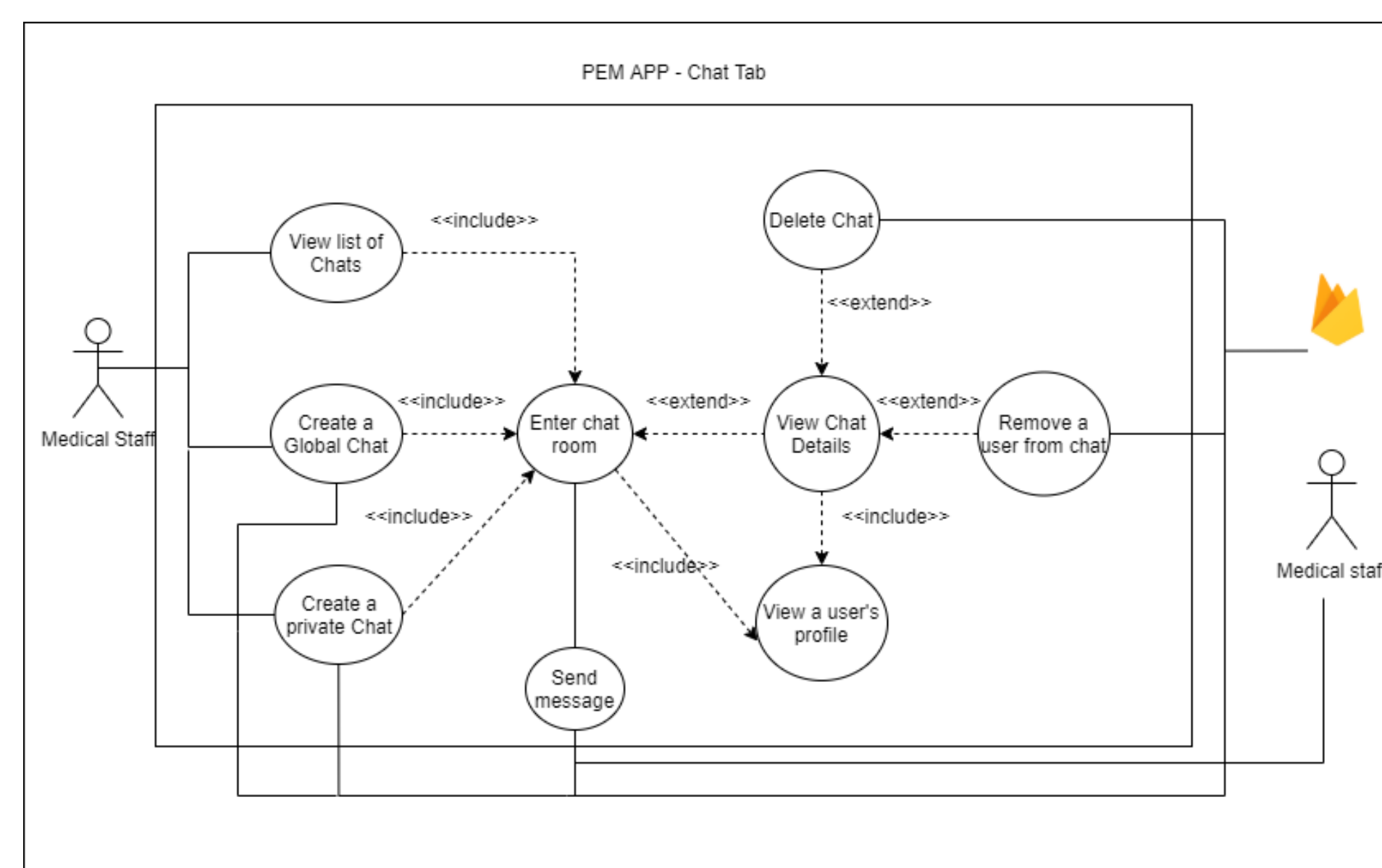
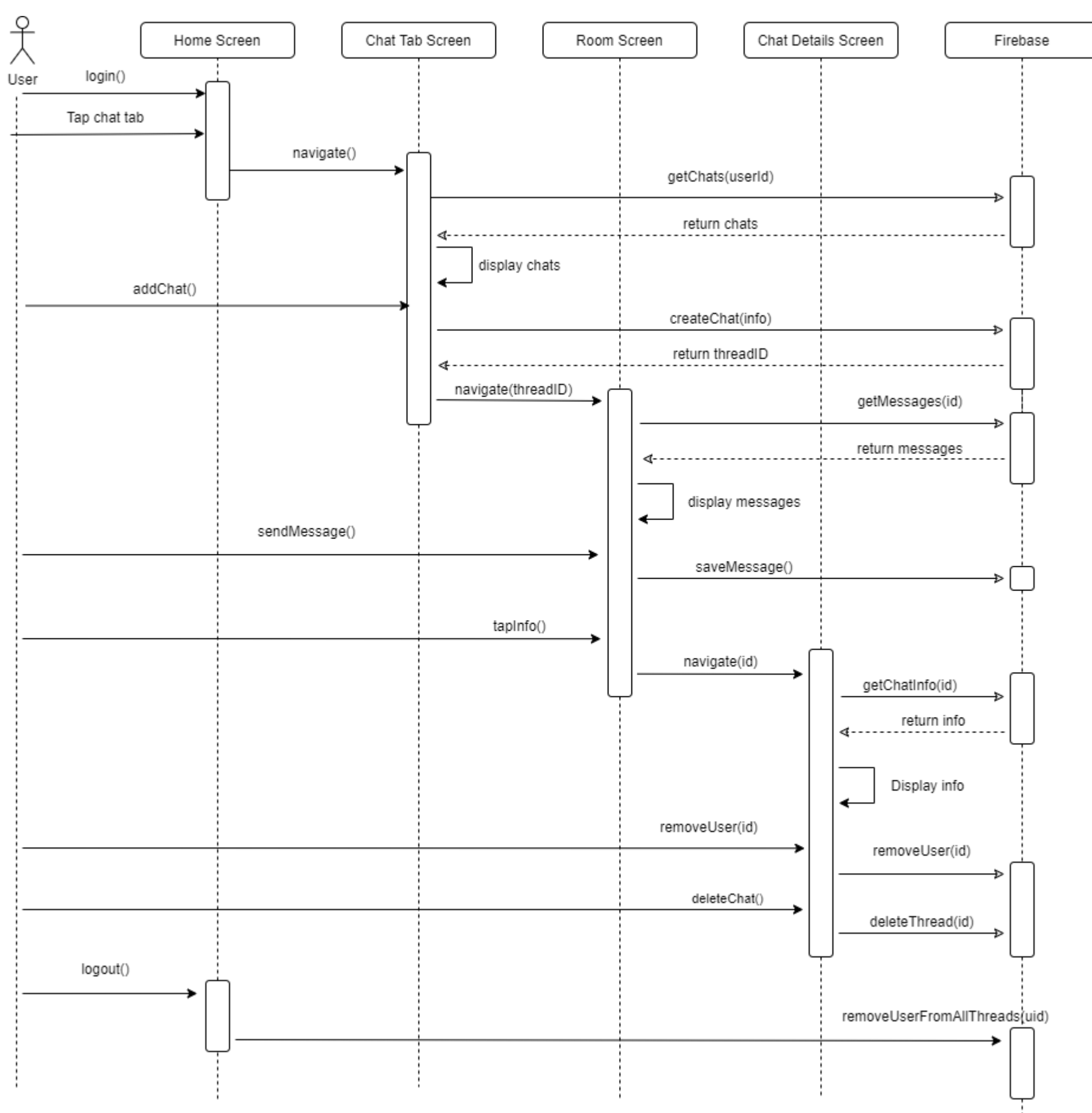
Current System

The current upgraded system includes an updated UI for the subcategories screen, a completed search, a redesigned MyDocs screen, a forgot password, and a fully functional chat system. I continued the development of the chat from last semester to provide a more complete chat experience.

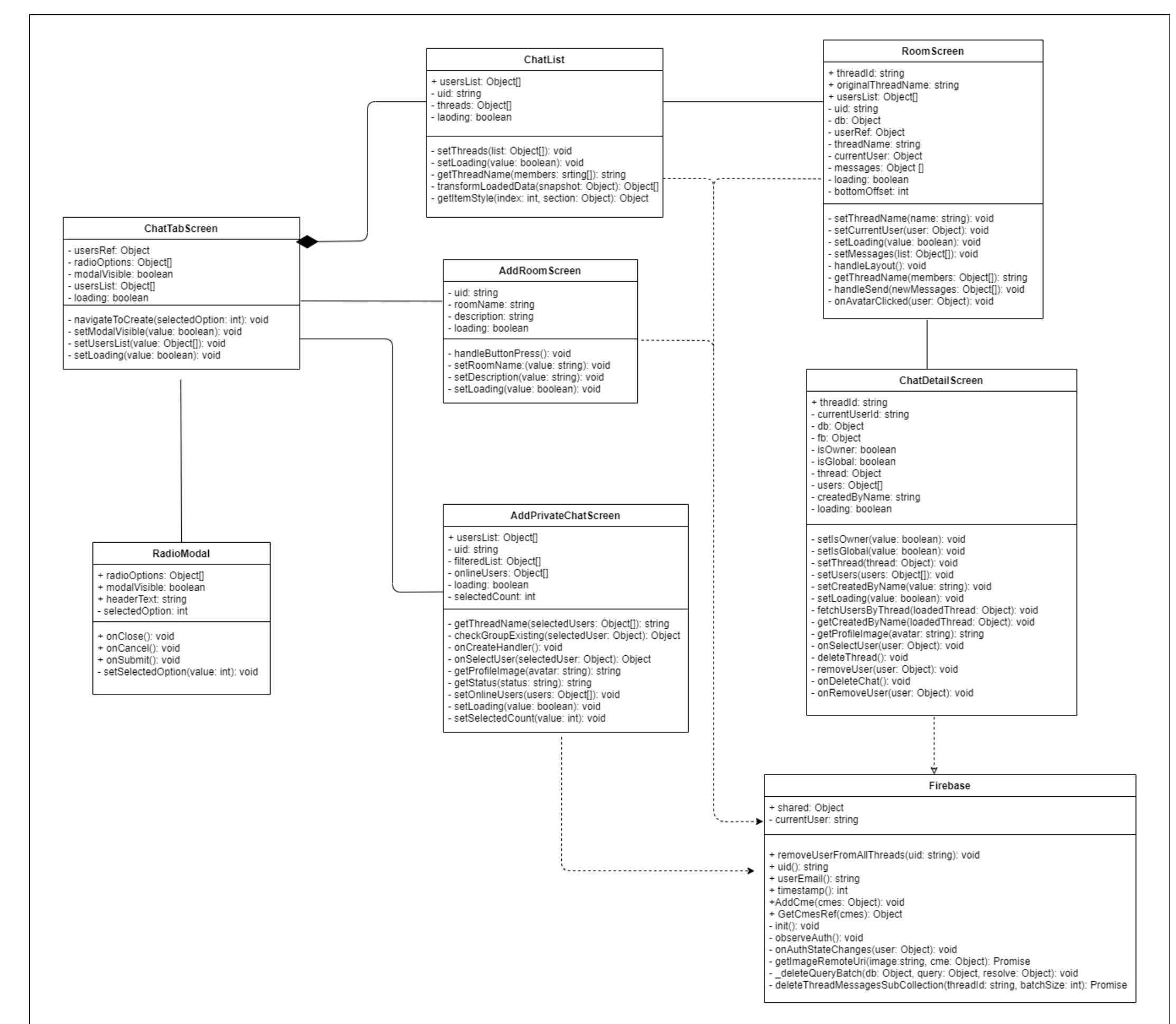
Requirements

- Display global and private chats on chat tab screen.
- Create option to make a global chat.
- Create option to make a private chat with 1 or more online users.
- Add HIPAA disclaimer to chats.
- Display details of chat.
- Allow owner of chat to remove a user from chat.
- Allow owner of chat to delete chat.
- Send/receive messages in real time.

System Design



Object Design



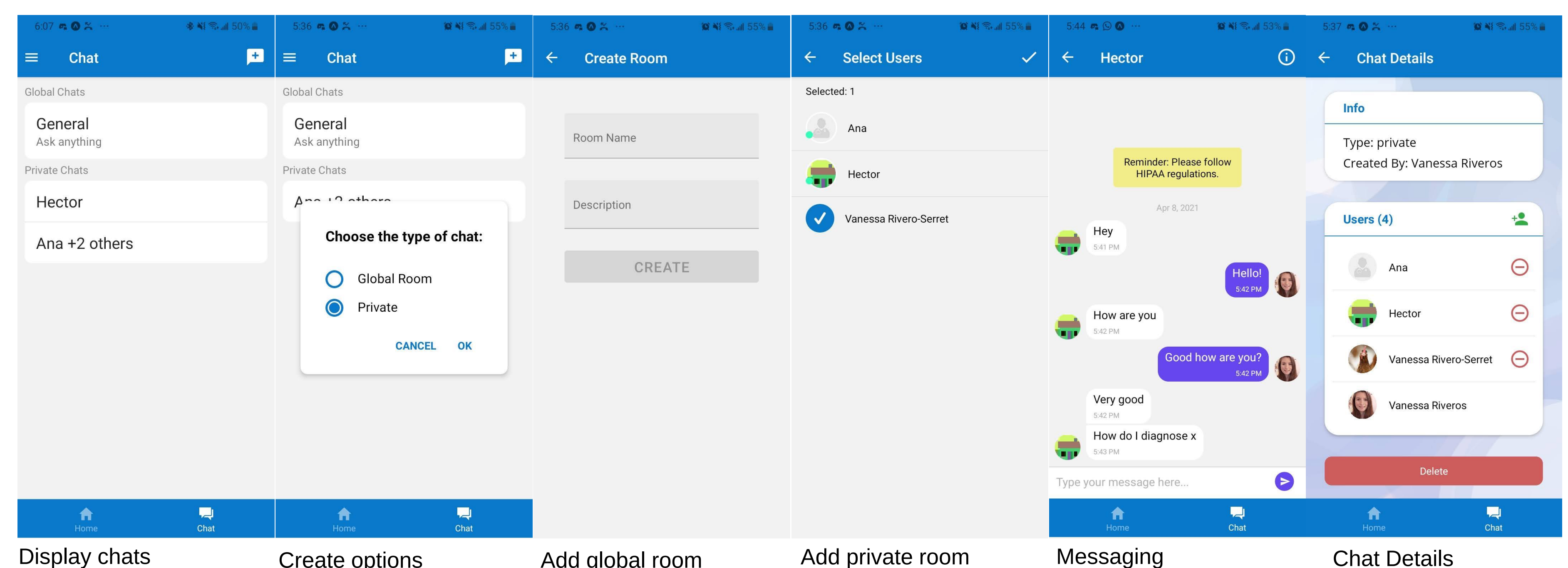
Implementation



Verification

Testing was conducted on several devices on both Android and IOS platforms as well as emulators. Chat rooms are correctly created and updated in Firestore and messages are sent and received in real time. Chat session was tested for the removal of the user from all private chats when they logout.

Screenshots



Summary

The changes and new features added onto this application this semester will enhance the user experience on the app so that pediatric emergency medicine healthcare workers can easily access critical information during emergencies and have an intuitive communication tool at their fingertips. In addition, this tool will allow them to easily organize their certifications.

Acknowledgement

The material presented in this poster is based upon the work supported by Jean Hannan and Bruce Quinn. Thank you both for the assistance, cooperation and mentorship throughout this process. Also, thank you to my teammates for their hard work and great team effort.