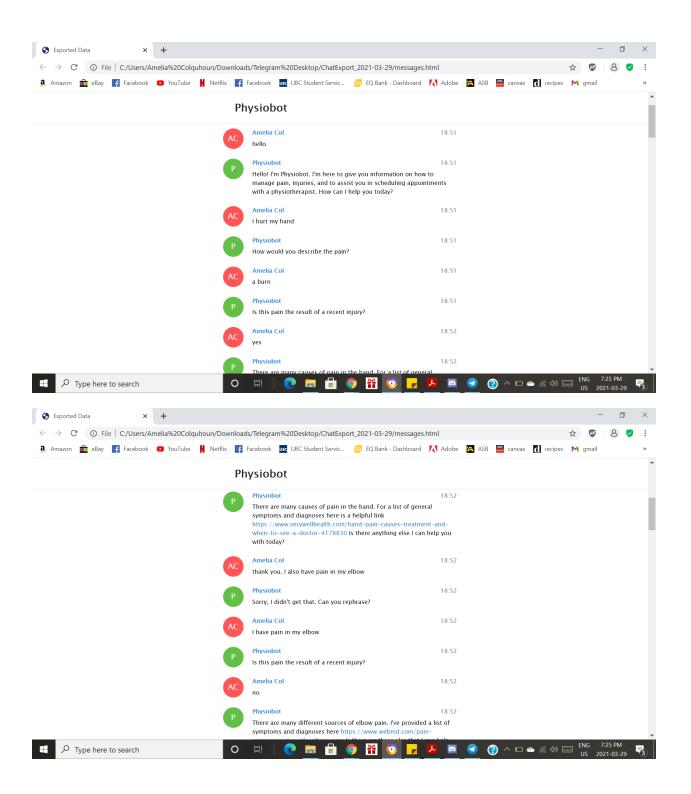
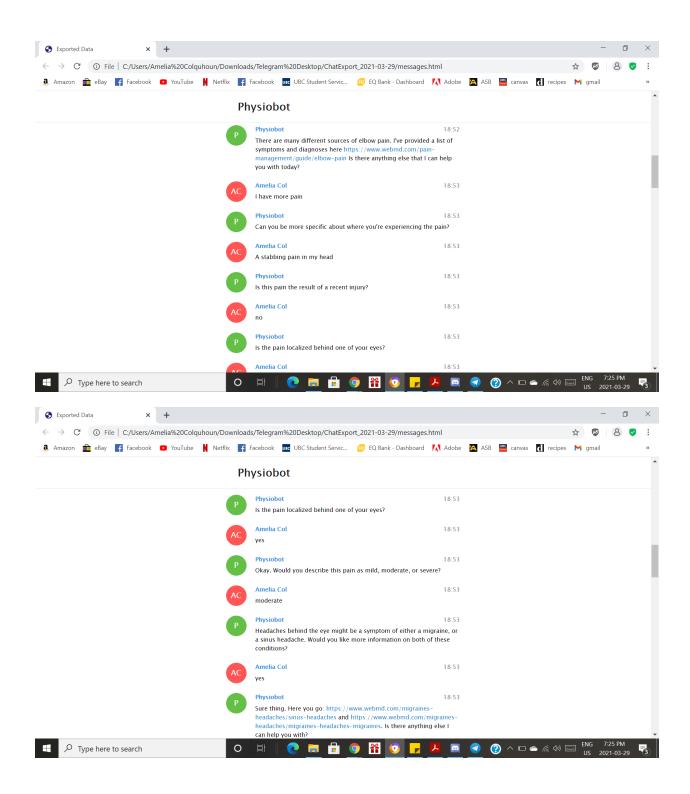
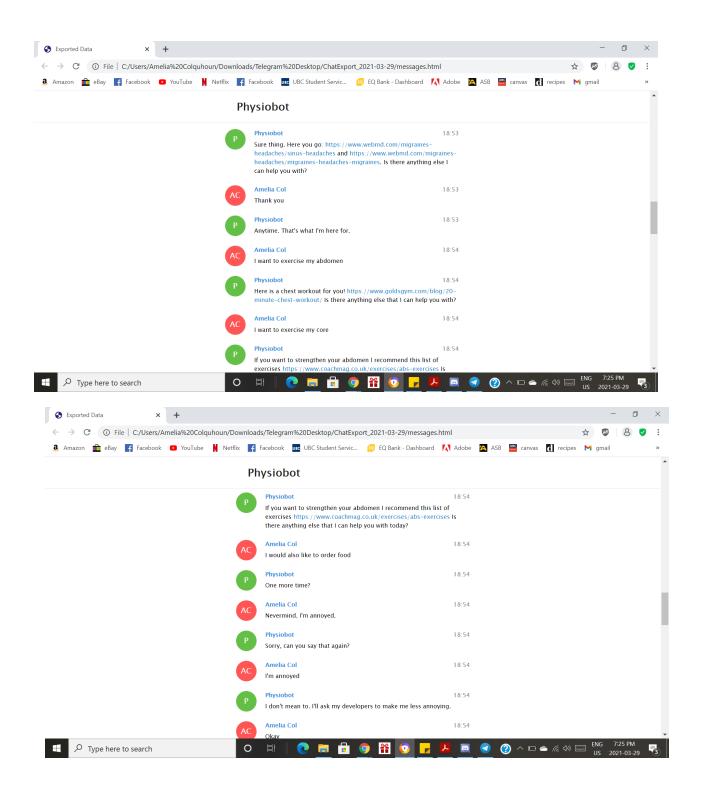
## **Sample Output**

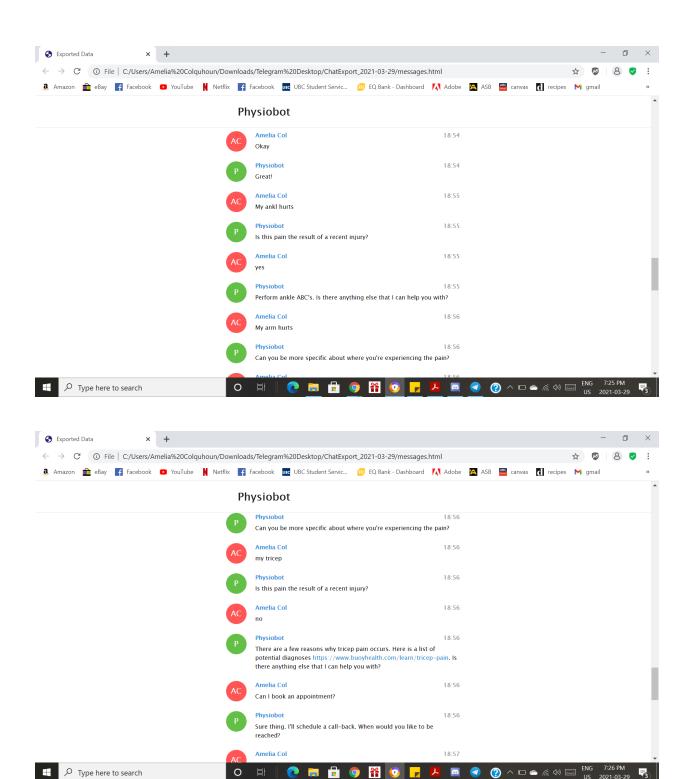
In this dialogue, I have demonstrated the ability for the physiobot to respond to user queries about physiotherapy related topics (i.e injuries, body pain etc.) I have also demonstrated the agent's default responses for when the agent does not understand the query. I demonstrated the agent's ability to recognize synonyms; for example, the agent responded similarly to the user's request for core/abdomen exercises. Sentiment analysis is briefly demonstrated when the user expresses annoyance, and the agent is able to pick out the sentiment and respond appropriately. By misspelling ankle, I demonstrated the agent's ability to recognize words or intentions despite spelling mistakes. The physiobot is able to match the word "tricep" to the entity "arm" and respond accurately. Near the end of the dialogue I tested the agent's ability to handle random queries or messages and it was able to respond reasonably.

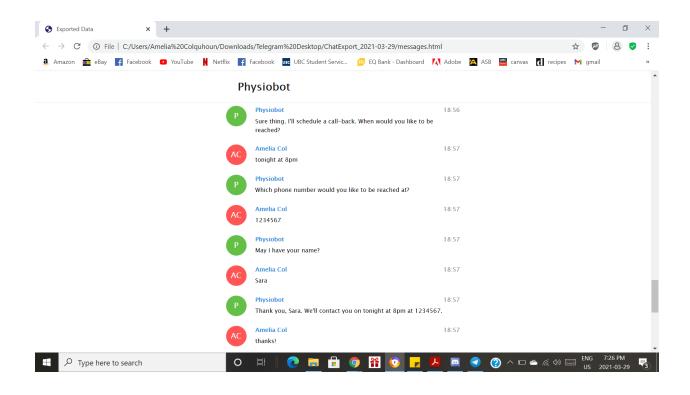
I've also included two situations in which the agent's response is notable. The first being when the user expresses that they have a stabbing pain in their head. This interaction is more complicated and shows the agent's capacity for storing information from the user and responding to it. Another notable interaction is when the user wishes to book an appointment. The agent is able to communicate smoothly and ask for information that it is then able to hold in it's memory and reiterate to confirm the appointment.

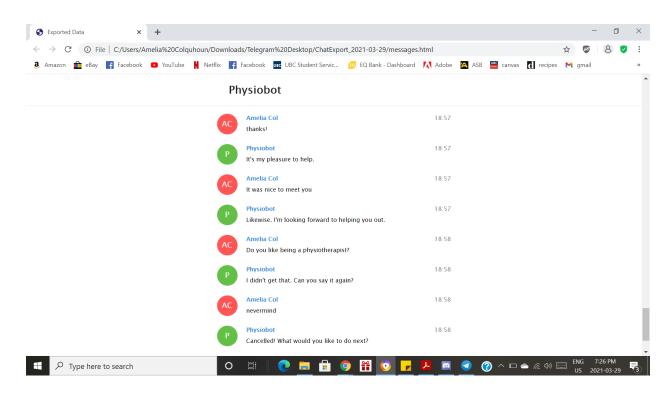


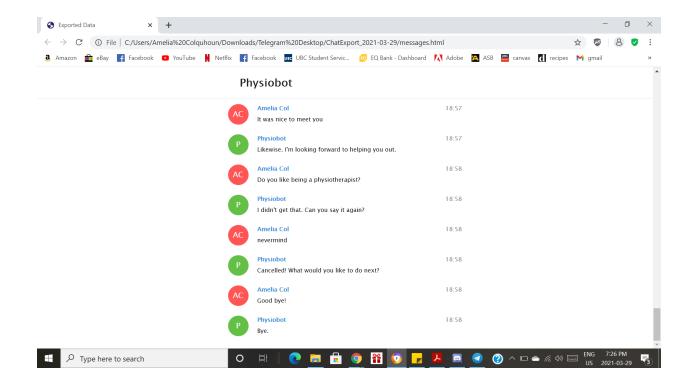












## Limitations

The agent has limited conversational skills and memory. It is unable to answer "follow-up" questions once it has given its advice to the user. It also has trouble when unnecessary words are added into the conversation, or if the user expresses more than one query in the same sentence/message. The agent also is not programmed to answer questions or messages outside of the topics of physiotherapy or exercise queries. The agent is able to recognize words despite spelling mistakes when the words are part of entities, however when the words are not part of entities, the agent has trouble recognizing words with spelling mistakes. Similarly for synonym recognition, not all synonyms are recognized, however most are.