

Chatbot Project Report – COSC 310 Assignment 3

Team 31
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Project Description:

The project consists of a chatbot built in Electron; the chatbot comes with a generic visual interface to ensure simplicity of use and understanding. (Apparently this is extra credit for the next assignment, which we weren't aware of until it had been implemented.) The chatbot takes on the role of a doctor, who can be asked questions about different symptoms and describe the likely illness and remedy. Thus, the user takes on the role of a patient.

Our GitHub Usernames:

Mohammed – msurkhi-1106
Jordan C. – ItsMyFuneral
Gabriel – GmcLachlan45
Jordan R. – jribbink
Nathan – DapperShark1

For SDLC information, WBS, and Gantt chart, please see the previous assignment's project report.

For a list of features included, the data flow diagrams, and the extractable features for an API, please see the GitHub repository and the README. The repository can be found here: <https://github.com/cosc310-project/chatbot-app/tree/dev>

Sample Output: (30-turn dialogue on next page. It's big. Read across first, then down, because Word is finicky.)

[illegible][illegible][illegible][illegible][illegible]

Hi, I'm a student at the University of California, Berkeley. I'm currently taking a course in Computer Science and I'm interested in learning more about the field. I'm looking for a mentor who can help me with my studies and provide me with advice on how to succeed in this field. I'm also interested in learning more about the latest research in the field and how to apply it to real-world problems. I'm looking for a mentor who can help me with my studies and provide me with advice on how to succeed in this field. I'm also interested in learning more about the latest research in the field and how to apply it to real-world problems.

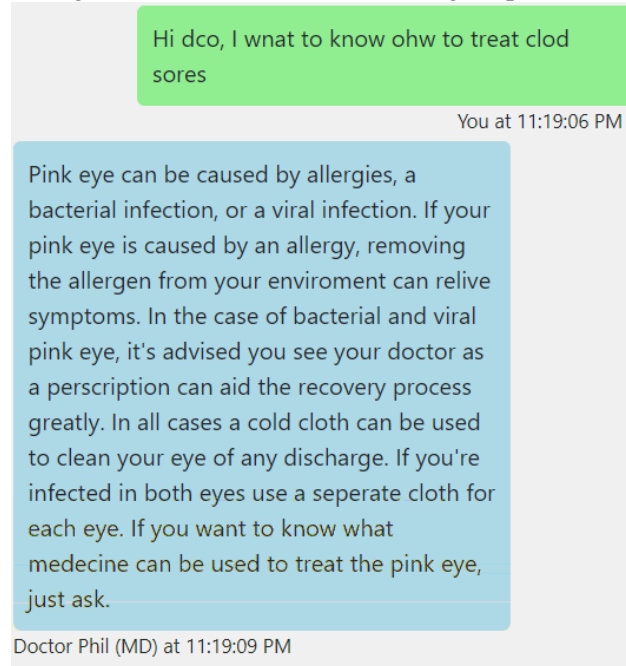
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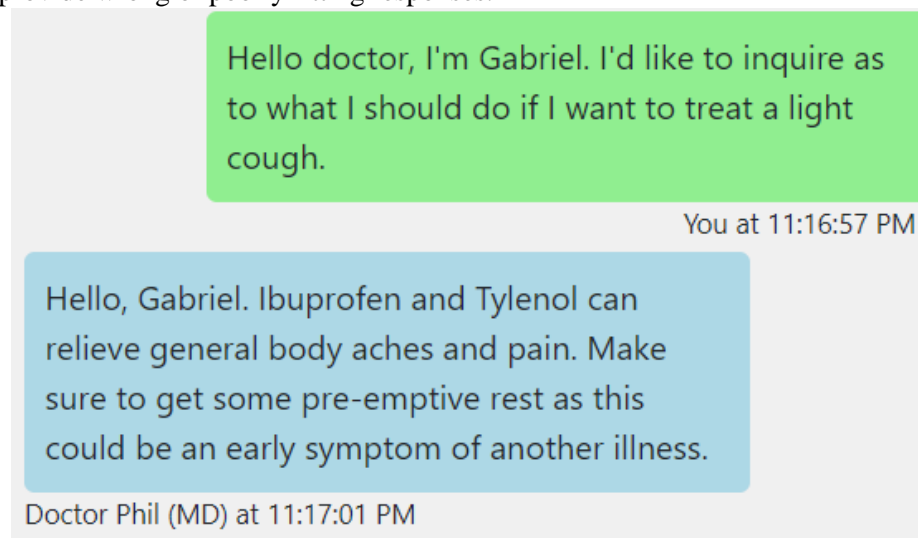
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Limitations:

- Bot fails on some messages with short misspelled words. This leads to the spellcheck outputting the wrong words, which causes the wrong output for the bot.



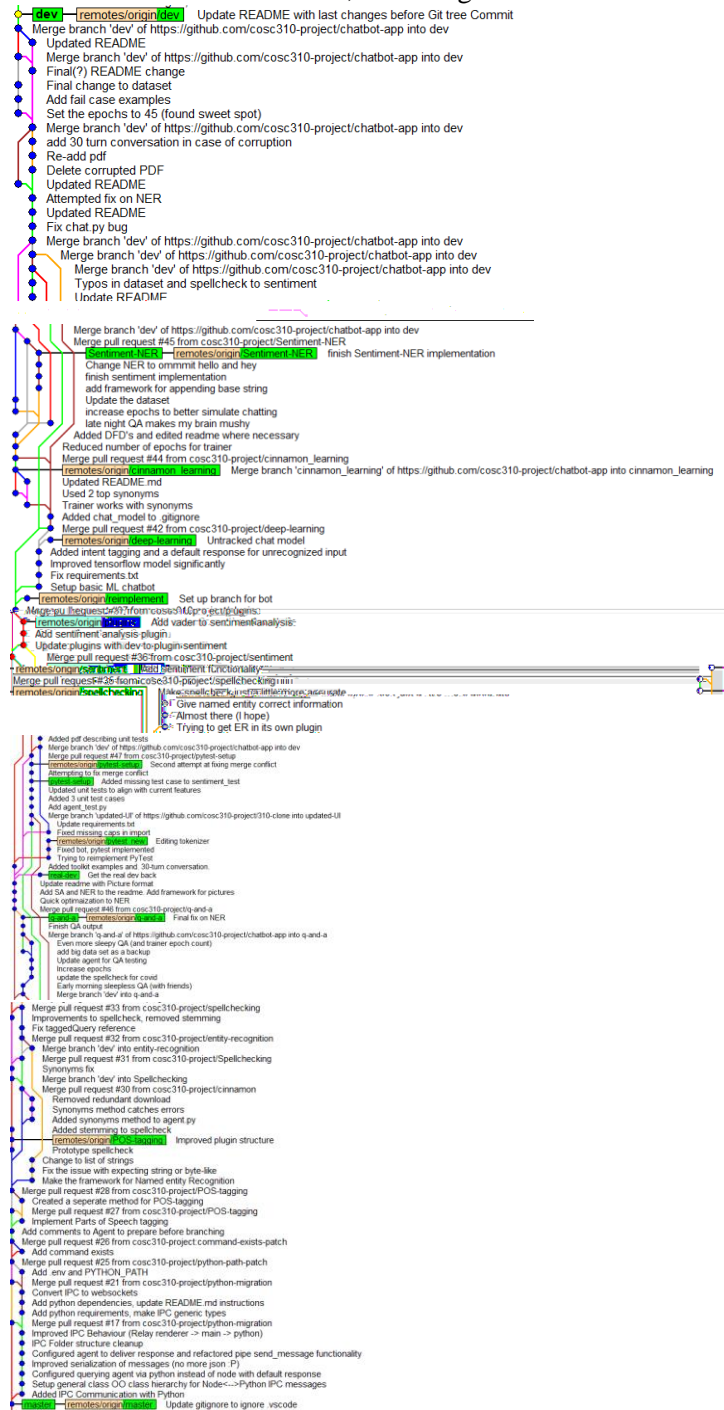
- Bot also fails on relatively long inputs, e.g. inputs longer than the expected 10-15 words. This is because the long input essentially confuses TensorFlow's learning system, and makes it more likely to provide wrong or poorly fitting responses.

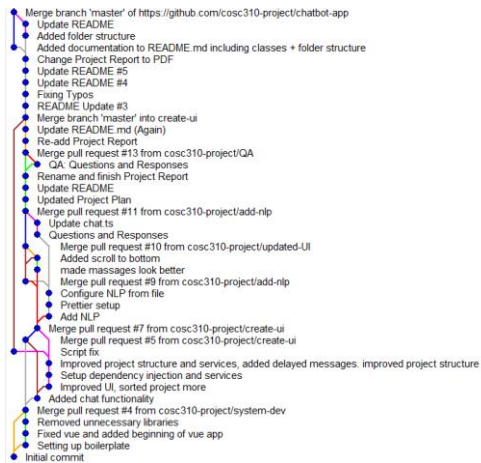


You can also find these in “./assets/examples” in the Github repo.

Github Graph:

This is the entire Github tree, including all branches that were used for different features:





This was the branch structure of Assignment 2. As you can see we did much better in using branches in this assignment, something we wanted to improve on in the first section