Chatbot Project Report – COSC 310 Assignment 3

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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.)













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.

Hi dco, I wnat to know ohw to treat clod You at 11:19:06 PM Pink eye can be caused by allergies, a bacterial infection, or a viral infection. If your pink eye is caused by an allergy, removing the allergen from your environment can relive symptoms. In the case of bacterial and viral pink eye, it's advised you see your doctor as a perscription can aid the recovery process greatly. In all cases a cold cloth can be used to clean your eye of any discharge. If you're infected in both eyes use a seperate cloth for each eye. If you want to know what medecine can be used to treat the pink eye, just ask. Doctor Phil (MD) at 11:19:09 PM

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.

Hello doctor, I'm Gabriel. I'd like to inquire as to what I should do if I want to treat a light cough.

You at 11:16:57 PM

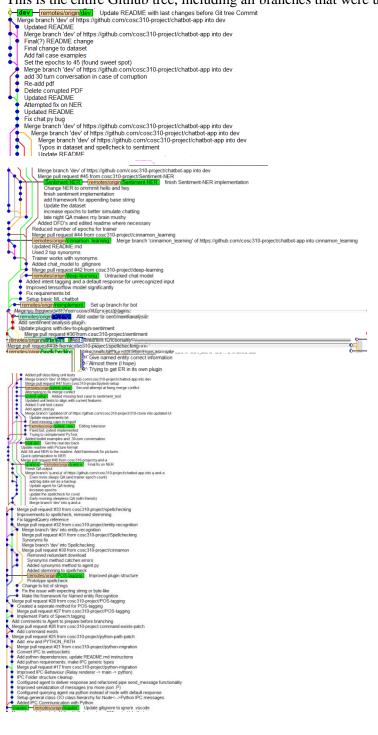
Hello, Gabriel. Ibuprofen and Tylenol can relieve general body aches and pain. Make sure to get some pre-emptive rest as this could be an early symptom of another illness.

Doctor Phil (MD) at 11:17:01 PM

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:



```
Merge branch 'master' of https://github.com/cosc310-project/chattbot-app

• Update README

Added documentation to README mt including classes + folder structure

Change Project Report to PDF

• Update README #5

• Update README #6

• Update README #6

• Update README #1

• Reng Typo

• Update README #1

• Reng Typo

• Reng Typo
```

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