

Group Repo for previous assignments: <https://github.com/Rohanc98/COSC-310-Assignment-2>

Repo for assignment 3: <https://github.com/keithnicholas/cosc310assign3>

5 features that I hope I could implement as an API:

- Create getSynonym as an API
- Convert my matching algorithm to an API so that I could be used by other people and each with their own keywords and responses
- Spellcheck could also be converted to an API with the whole sentence or tokenized words as an input
- Get weather functionality could be converted to API where other user can get current weather on a given city
- My whole bot can be converted to a (web hook) that gives responses given user query.

List of limitation:

- SpellCheck (implemented in assignment 2 with group) only act on per words (instead of taking into account the whole sentences) and sometimes is not working.
- Doesn't understand context
- Doesn't utilize state (it doesn't know who is it talking to, what is the user name?).
- Because it matches based on keyword, it might fail to respond meaningfully to user query due to similarity between given keyword
- Limited topics due to the design of algorithm
- GUI could be improved

Example of limitation:

You: what is a natural language processing (matches on what "is a")

Sandra: some human emotion

You: who are you

Sandra: I am a smart dumb hehe

You: why are you a bad robot

Sandra: I am a smart dumb hehe

You: You should be ashamed of yourself

Sandra: Sorry, I could not understand what you are saying.

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Sample Messages (30):

You: hello

Sandra: Whatsup my fellow human friends

You: anyways whatsup sandra

Sandra: not much, just talking with you

You: who is president

Sandra: Certainly, not me

You: can you keep secret

Sandra: go ahead

You: what do you like

Sandra: I cannot feel hunger

You: who is worst criminal

Sandra: Certainly, not me

You: where is location of canada

Sandra: north of USA

You: what is best football league

Sandra: Barclay is good

You: can you play

Sandra: I cannot play sport, I am an AI

You: can you basketball

Sandra: I cannot play sport, I am an AI

You: went to the mall

Sandra: Nice. Did you get anything?

You: yes but i am tired

Sandra: Remember quitters never win, and winners never quit

You: do you know what is a life

Sandra: Dunno, its too philosophical

You: do you know any soccer team

Sandra: Yeah,I like UEFA and worldcup

You: that is true

Sandra: I know, I'm a robot. We're mostly right all the time

You: how is weather kelowna tonight

Sandra: We have light rain in Kelowna and the temperature is 8.53 °C

You: do you want to get a coffee

Sandra: I cannot feel hunger

You: what do you drive

Sandra: I drive a binary number

You: where is the car

Sandra: north of USA

You: do you know about vehicle

Sandra: ford mustang top speed is about 280 km/h

You: what basketball team do you like

Sandra: Lakers is pretty good

You: do you feel hungry

Sandra: I cannot feel hunger

You: do you feel starving

Sandra: I cannot feel hunger

You: ill tell you to beat them

Sandra: okay, but I'm a robot, I'm unbeatable

You: i got car

Sandra: Nice! If I had a computer vision algorithm, I could see them

You: do you operate car

Sandra: I cannot operate car

You: what is a love

Sandra: some human emotion

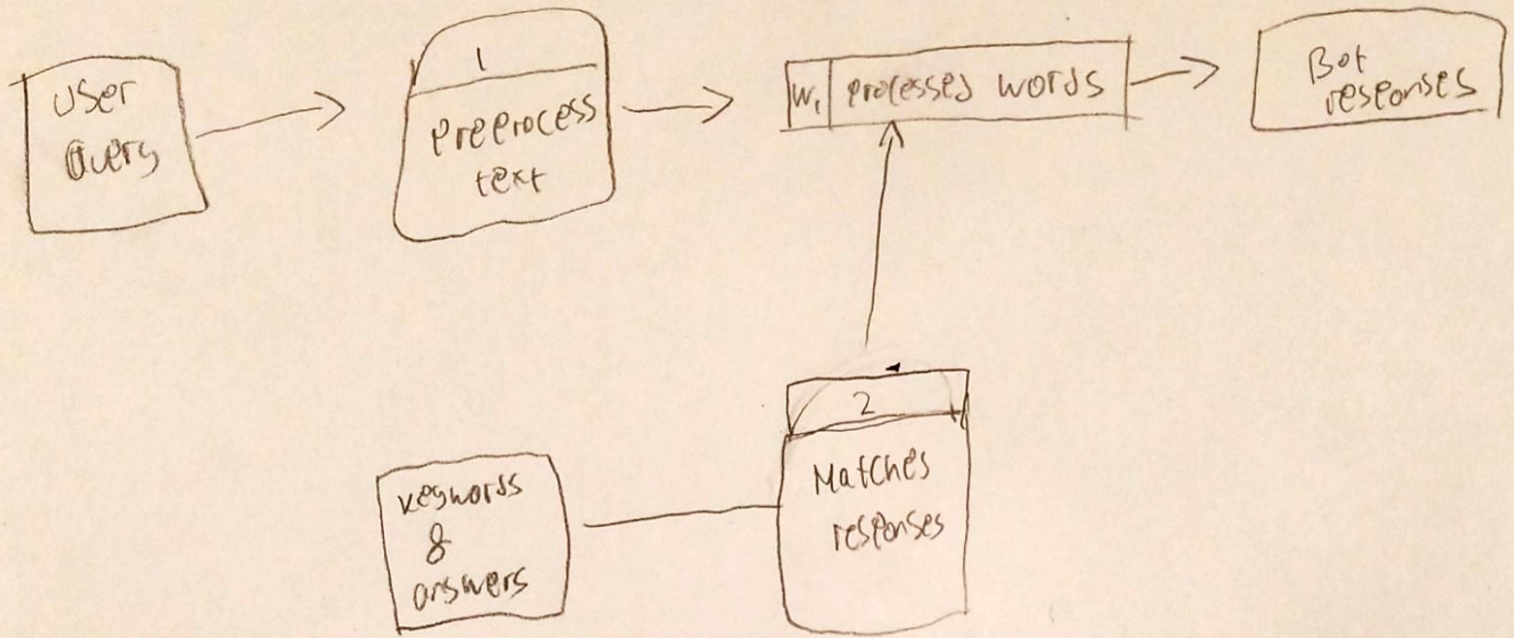
You: what is the meaning of life

Sandra: Dunno, its too philosophical

You: why are you so mean

Sandra: I am a smart dumb hehe

Level 0



keyw  
s



Level 1

VS

