

# COLLEGE QUERY CHATBOT

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**Abstract** - Chatbots, earlier known as 'Chatter Bots' or 'Chatting Bots' are like an interface between the client and the company or organization. A chatbot offers a purchaser to basically ask questions inside the same way that they might converse with a human. The centre rule of the chatbot is ordinary tongue handling (NLP). Afterward upgrades in system learning have relatively moved forward the accuracy and practicality of usual dialect handling, making chatbots a superb highlight to have for numerous companies. A clear chatbot can be made by means of stacking an FAQ list (frequently requested questions) into the chatbot's program. The value of the chatbot can be extended through joining it into the college's site, allowing more questions to be fathomed.[1]

## I. INTRODUCTION -

Chatbots, present a new alternative for people to get their questions answered by the AI of the system. Usually, people would waste their time searching for crucial information provided on the website[2]. Some far off staying or abroad dwelling people and students may have to visit the college as well if their doubts are not solved by accessing just the information visible on the website of college. E-mailing may provide time lack in communication, phone calling service too may not be available at night or holidays. For this purpose we have built this ChatBot. We have developed this interactive bot application in Python Programming language thus named it 'PYBOT'.

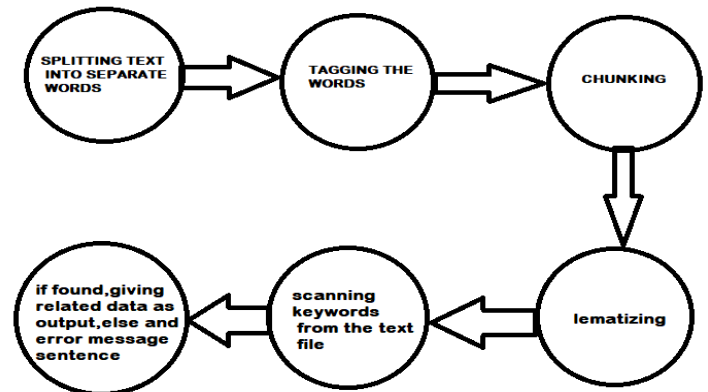
## II. PROPOSED METHODOLOGY-

This project's number one tool is keyword-matching. We have chosen python as our programming dialect to assist us make the interplay and UI of the bot. At that point we've selected Pycharm pc software program as a medium for creating this Python based totally application. We utilized a content report for statistics capability which incorporates the records that the chatbot could be giving in form of replies.

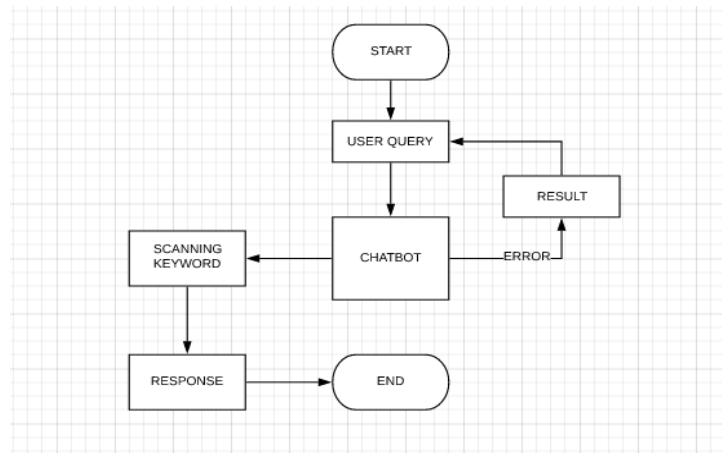
### Resources required:

1. Python
2. Pycharm
3. PC

## 1. System Architecture-



## 2. Project Design -



## 3. Major Python Components used -

### LIBRARIES:

- NLTK - Natural Language Toolkit

NLTK is the foremost commonly used toolkit which could be a free plugin for Python. The Natural Language ToolKit (NLTK) may be a set of commands which gets it and translates Common Dialect of people. It may be introduced into Python Libraries with the aid of pip command. It is made use of to break words in a string of content and disconnected the content into chunks of the input sentences by way of labeling word names concurring to their positions and capacities within the sentence.[3] The coming nearly labeled words

are at that factor arranged to get rid of the meaning and bring a response. Different dialect structure rules are utilized the labeled phrases within the substance into bunches or expressions relating to their acquaintances and positions. This kind of accumulating is known as chunking into expressions, such as aspect expressions and verb phrases [4]

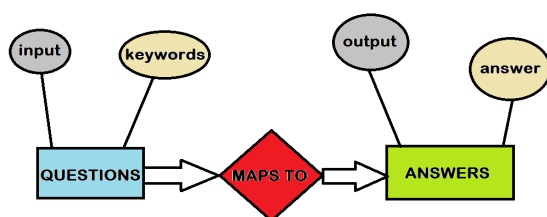
- Tkinter – For GUI designing This library is reasonable applied for arrange reason for your application. It has additives like button and scrollbar. You will be able modify and pick out your substance printed fashion and substance colour etc. With this library. We chosen numerous substance colours printed patterns and factors as an elective for client to modify it. We have included topics as well. The picture photo of our Chatbot from here. We furthermore got in use of menubar and Menus along side buttons.

**4. Actual mechanism -**

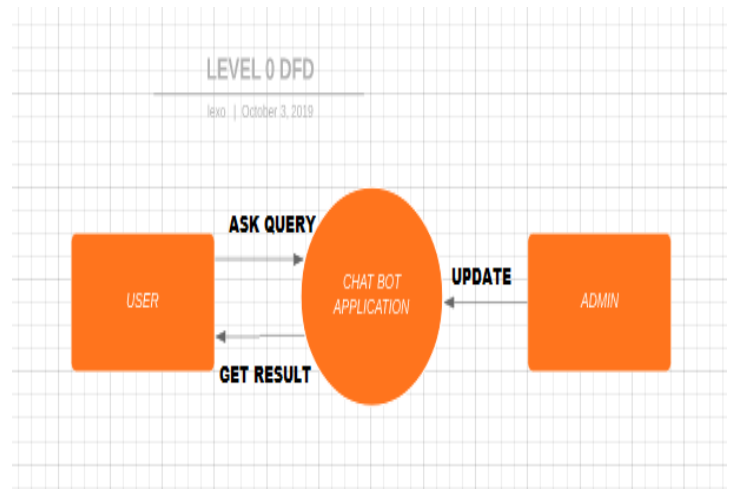
The tokenizer breaks the queries into small watchwords and channels the total substance record for comparable watchwords and responds with the coordinating statistics. We got to have many kind of input which store all of the records units i.E the clean answers which the chatbot will give to the client when a couple of verbalization is made or address is asked. So to start with we made a fundamental substance record using Scratch pad in which all of the college focuses of intrigued like names of faculty, founder, etc. Are composed and saved line-by-line.

Then a unused application is made using Python in which we mean the libraries stated over. Essential GUI is protected to the application perspective with additional selections of our choice. It consolidates the utilize of exceptional themes, colors, text fonts, button, icon photo etc. At that point the tokenizer is declared. It’s paintings is to require catchphrases from the input of the patron i.E it changes over the questions into watchwords and checks the whole content file for comparative making plans lines. We have placed the records units sentence-by-sentence as in keeping with the tokenizer that we have used.

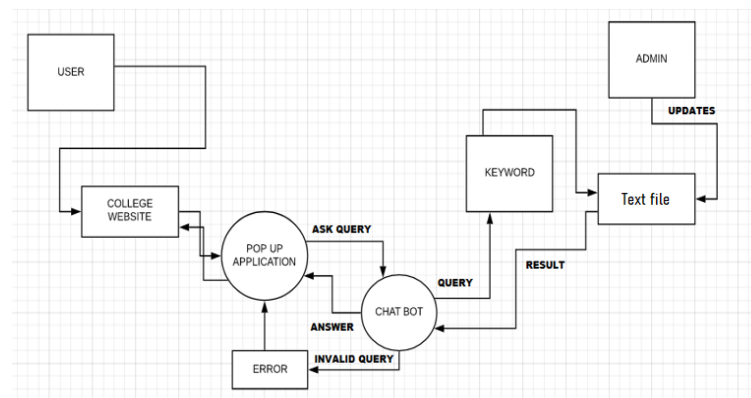
**5. Entity-Relationship diagram-**



**6. Data Flow Diagram Level 0 -**



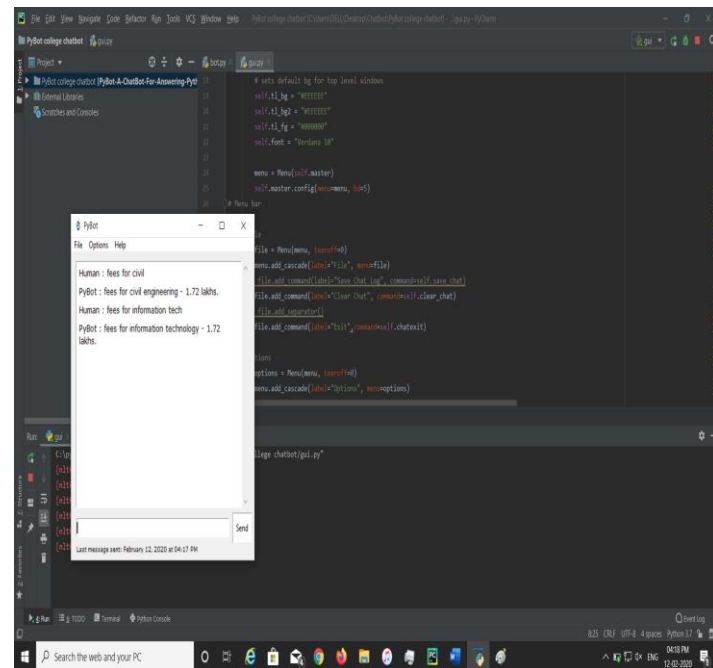
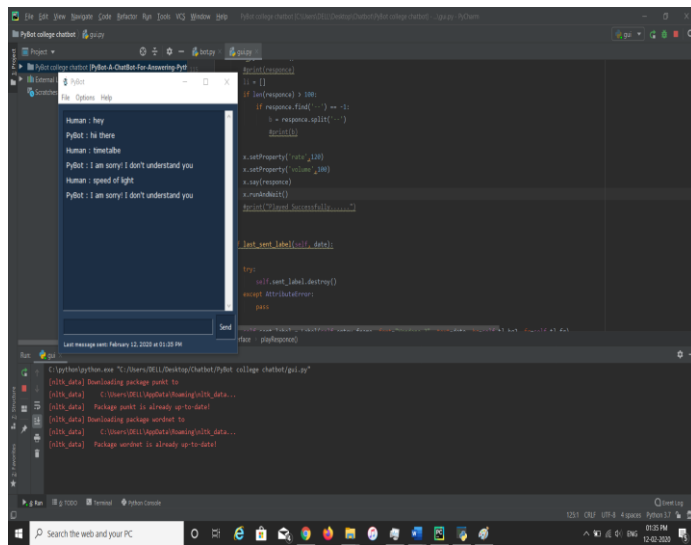
**Data Flow Diagram Level 1 -**



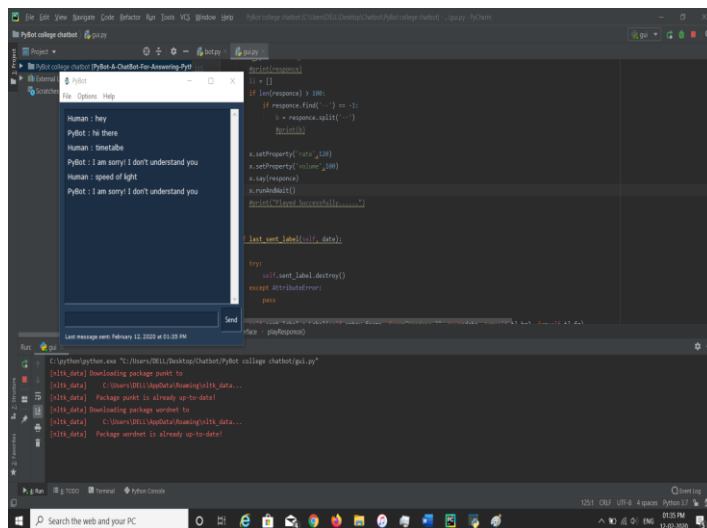
**7. Conclusion -**

We have made this ChatBot for giving crucial and development information to the interested people, so they can have an deduced clear thought nearly the focuses of intrigued required. The Chatbot is user-friendly as well with all the arranged apparently charming GUI. Unpretentious components like timetable, add up to correct expenses, workforce capability points of interest, occasion subtle elements etc. which does not got to be shown on the most site as they are not of essential data, but auxiliary. This chatbot application fulfills this reason.

**GRAPHICAL USER INTERFACE OF THE PROJECT -**



**UNRELATED INPUT REPOSE (ERROR) -**



**8. REFERENCES -**

- A. M. Galvao, F. A. Barros, A. M. Neves, and G. L. Ramalho, "Persona-aiml: An architecture developing chatterbots with personality." pp. 1266-1267, 2004.
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- MIT World Peace University student papers

**OUTPUTS -**

