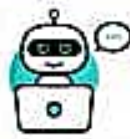




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Introduction

- ☐ Chatbot is an automated software program that interacts with humans using natural language.
- ☐ Chatbot are programs that work on Artificial Intelligence(AI) & Machine Learning platform.
- ☐ This software program conducts conversation with users via textual methods
- ☐ In this project, Chatbot is developed using python programming language in google collabs.



ABSTRACT

- ❑ The application “CHATBOT USING PYTHON” is designed by python using JSON Database structure.
- ❑ A chatbot suits the user needs and requirements.
- ❑ Chatbots are usually a stateful services, remembering previous commands in order to provide functionality.
- ❑ It gives answers to the user in a text-based commands. The questions could be regarding college details.



Existing system

- ☐ User need to personally visit the college and ask the college help desk , if the student have any queries about the college.
- ☐ It takes lot of time and money if the college is miles away from the student native place.

DISADVANTAGE:

- ☐ The chat bot system is not known to people who do not have more knowledge about the technology
- ☐ Even if there exist a chatbot system , it is not much accurate in providing the answer or solution
- ☐ Also this process may lead to communication gap between student and college



PROPOSED SYSTEM

- ❑ This application provides answer to the query of the student.
- ❑ Students have to query through the bot which is used for chatting.
- ❑ The system uses Built in tensorflow , tflearn libraries and NLP , Neural network concepts.
- ❑ The answers are appropriate what the user queries.



ADVANTAGES OF PROPOSED SYSTEM

- ☐ Chat bot can run on local computers and phones , smart devices.
- ☐ Eliminates the requirement of any manpower during online interaction.
- ☐ Chat bot is typically perceived as engaging software entity.
- ☐ It is an extremely helpful and useful system for disabled people.



SYSTEM REQUIREMENTS

❑ Software requirements

Operating system	:	Windows 10
Coding language	:	Python 3.8
Tool Used	:	Google Colab
Front end	:	HTML 5.2, CSS3
Data Base	:	MySQL 8.0.21

❑ Hardware requirements

Processor : intel core5

Hard disk : 250GB

Monitor : 15"LED

RAM : 4 GB

Input devices : Keyboard ,
Mouse



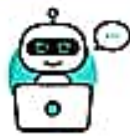
MODULES

- ☐ User
- ☐ Chat Bot
- ☐ Information



User Module

- ❑ Speech to Text: User will ask the computer to run command by giving input as speech.
- ❑ Command Execution: Based on command receive from the user, system will execute the command (if available).
- ❑ Text to Speech: Once a command is received, application speaks the command.



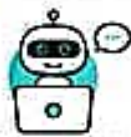
Chatbot Module

- ☐ To make a conversation between both human and machine.
- ☐ The machine has been embedded knowledge to identify the sentences and making a decision itself.
- ☐ User can chat with the bot it implies as if enquiring to the college person about college related activities.



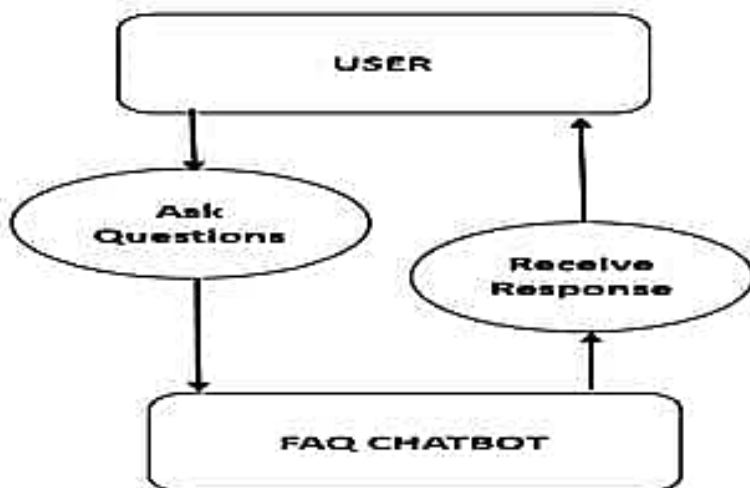
Information Module

- ❑ This system can answer the questions asked by the user.
- ❑ The question relevant to college the system search and gives that particular college information.

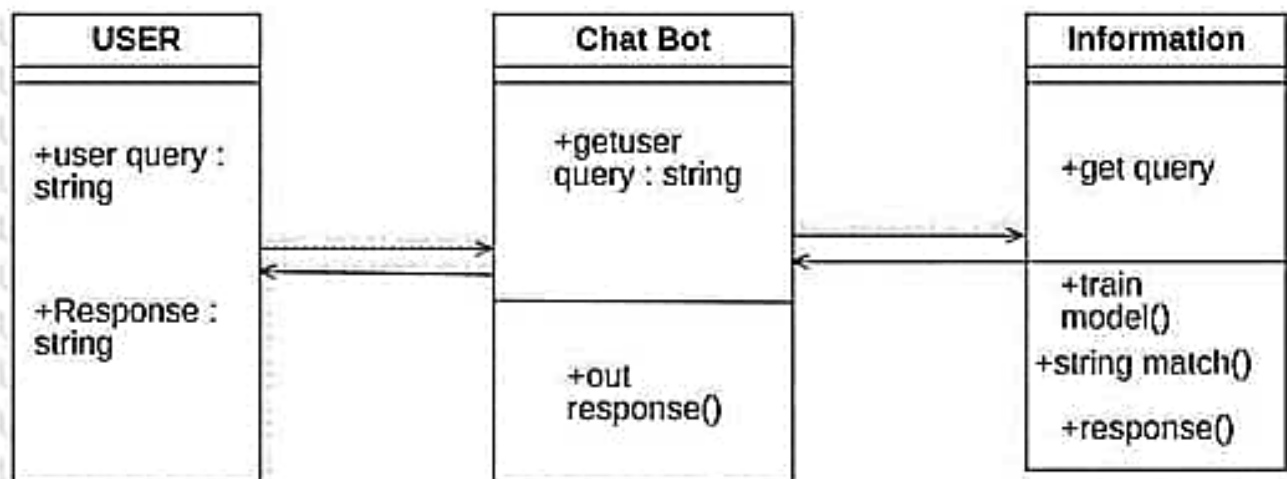


UML DIAGRAMS

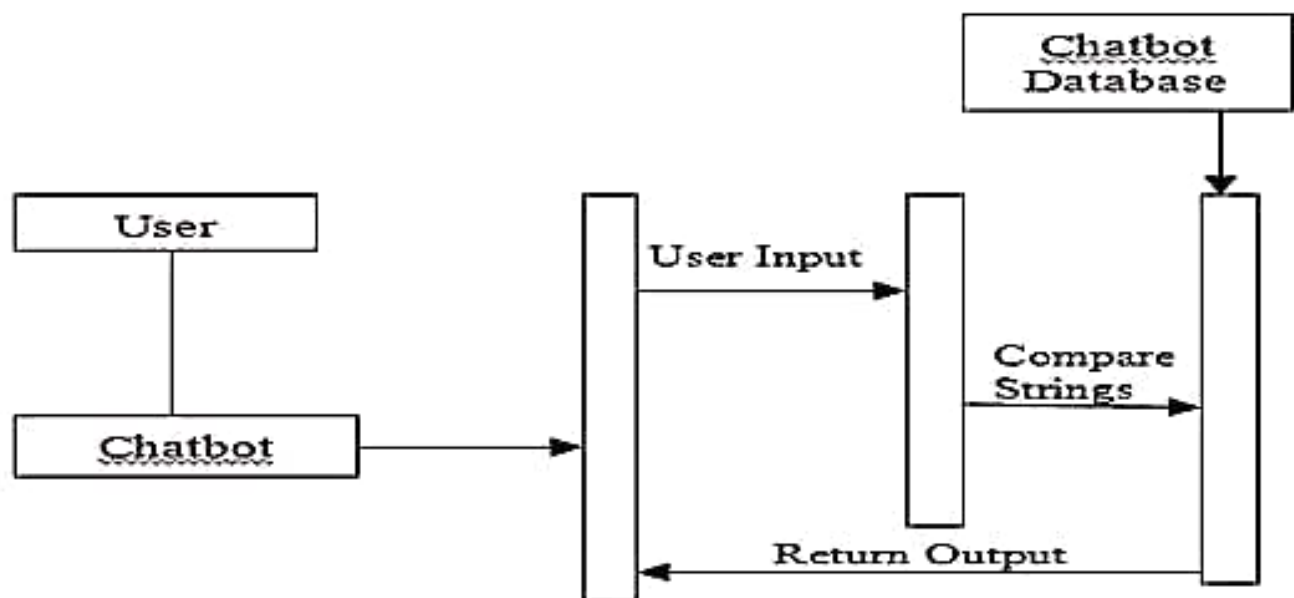
❑ USECASE DIAGRAM



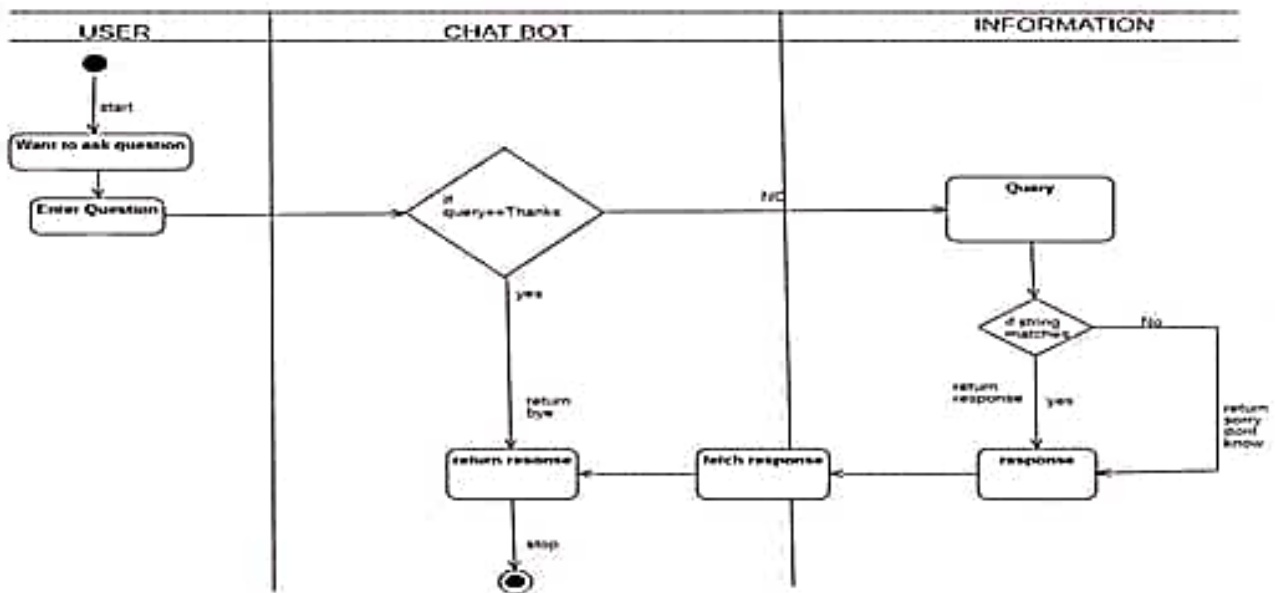
□ CLASS DIAGRAM



❑ SEQUENCE DIAGRAM



□ ACTIVITY DIAGRAM





Result

colab.research.google.com/drive/1V2YqldOwhxMw5P7NDO-DFFAJVMK6-a?scrollTo=DHd2YMDXQig2

Files

- sample_data
- checkpoint
- data.pickle
- intents.json
- model.tflearn.data-00000-of-00001
- model.tflearn.index
- model.tflearn.meta

+ Code + Text

```
results = model.predict([bag_of_words(inp, w
results_index = numpy.argmax(results)
tag = labels[results_index]

for tg in data["intents"]:
    if tg['tag'] == tag:
        responses = tg['responses']

print(random.choice(responses))

chat()
```

... Start talking with the bot (type quit to stop)
You: hi
Hello!
You: see you later
Talk to you later
You: how old
I am 18 years old!
You: Thanks
Hello!
You: What hours are you open?
We are open 9am-4pm Monday-Friday!

intents.json

```
25 g: "INTUACEK stands",
26 tterns": ["INTUACEK stands for", "what is
27 sponses": ["Jawaharlal Nehru Technologice
28
29 g: "location",
30 tterns": [ "What is your location?", "We
31 sponses": [ "We are on Madanapalli road,
32
33 g: "courses",
34 tterns": [ "What are the courses available
35 sponses": [ "We offer B.Tech course", "We
36
37 g: "B.Tech branches",
38 tterns": [ "What are the branches that yo
39 sponses": [ "We provide CIVIL, EEE, MECO,
40
41 g: "INTUACEK placements",
42 tterns": [ "What are the placements of IN
43 sponses": [ "more the 100+ students have
44 ntext_tst": "placements"
```

You: JNTUACEK full form

Jawaharlal Nehru Technological University Anantapur College of Engineering Kalikiri

You: Where are you located

We are on Madanapalli road, Kalikiri

You: What branches do you provide

we provide namely six branches they are cse, ece, eee, mech, civil, fdt

You: HOD of cse department

Dr. Shaik Naseera

You: JNTUACEK placements

more the 100+ students have been placed 2021 through out all branches

You: Principal of JNTUA Kalikiri

Dr. M. L. S DEVAKUMAR GARU

You: goodbye

see you later

You: quit



How chatbot aid the Contemporary Society

- ☐ Chatbots are available immediately @24/7
- ☐ It increases sales as well as frame
- ☐ Provides wide range of applications in different industry and services
- ☐ Helps to search the information faster and better than humans
- ☐ It provides immediate feedback



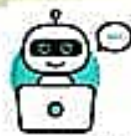
CONCLUSION

- ☐ This chatbot can answer to the queries in the textual user input.
- ☐ JSON file (which contains questions and its respective answers) has been created and loaded into the machine .
- ☐ Chatbot can answer to the queries asked by the user.
- ☐ In this project, chatbot contains the details about the college.



Future scope

- ☐ It is getting more efficient day by day and the next scope is multilinguistic responses
- ☐ Voice-bots are also set to enhance the services
- ☐ Human alike
- ☐ Adoption of AI to make accurate predication for query



References

- [1] Bayan Abu Shawar and Eric Atwell, 2007 “Chatbots: Are they Really Useful?”
- [2] Bringing chatbots into education: Towards natural language negotiation of open learner models. Know.- Based Syst. 20, 2 (Mar. 2007), 177-185.
- [3] <http://en.wikipedia.org/wiki/Chatterbot>
- [4] ALICE. 2002. A.L.I.C.E AI Foundation, <http://www.alicebot.org/>
- [5] Kumar, M Naveen, PC Linga Chandar, A Venkatesh Prasad, and K Sumangali (2016). “Android based educational Chatbot for visually impaired people”. In: International Conference on Computational Intelligence and Computing Research (ICCIC), 2016 IEEE. IEEE, pp. 1–4.
- [6] Ranoliya , Bhavika R, Nidhi Raghuwanshi , and Sanjay Singh (2017). “Chatbot for University Related FAQs”. In: 2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI). Udupi, pp. 1525–1530.



THANK YOU