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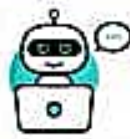
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Introduction

- ❑ 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

❑Chart 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

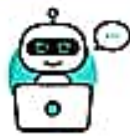|		
Processor	:	intel core5
Hard disk	:	250GB
Monitor	:	15"LED
RAM	:	4 GB
Input devices	:	Keyboard , Mouse

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.

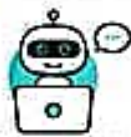# Chatbot Module

❑To make a conversation between both human and machine.

❑The machine has been embedded knowledge to identify the sentences and making a decision itself.

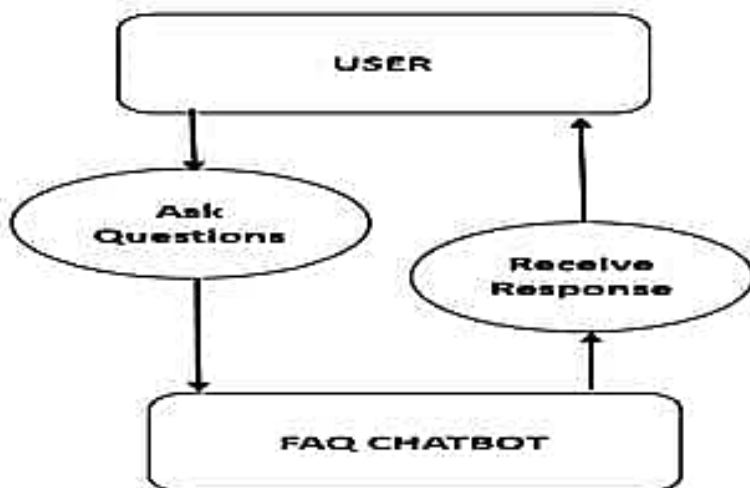❑User can chat with the bot it implies as if enquiring to the college person about college related activities.

Information Module

□This system can answer the questions asked by the user.

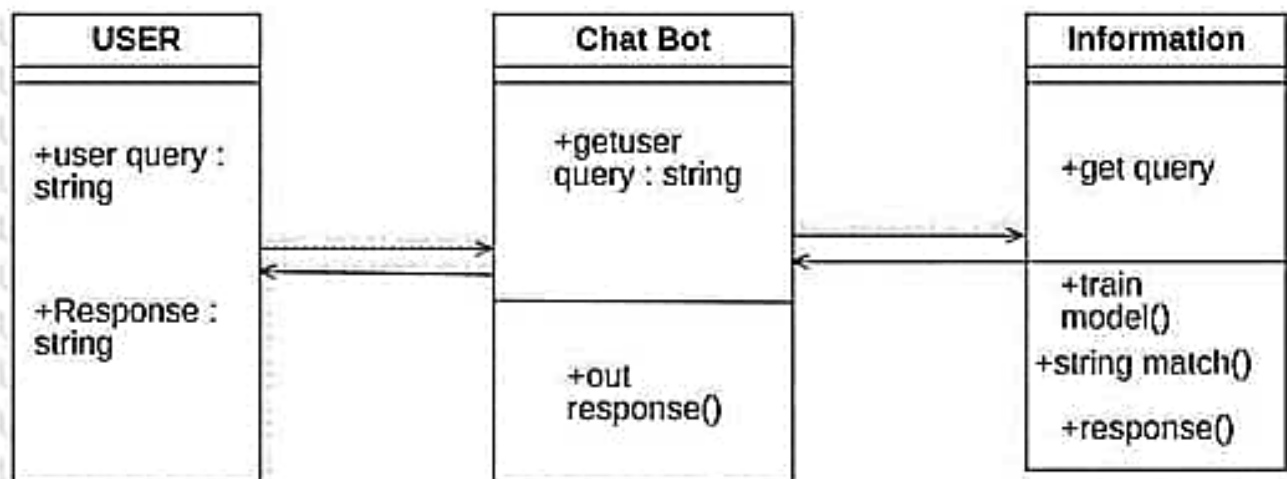□The question relevant to college the system search and gives that particular college information.
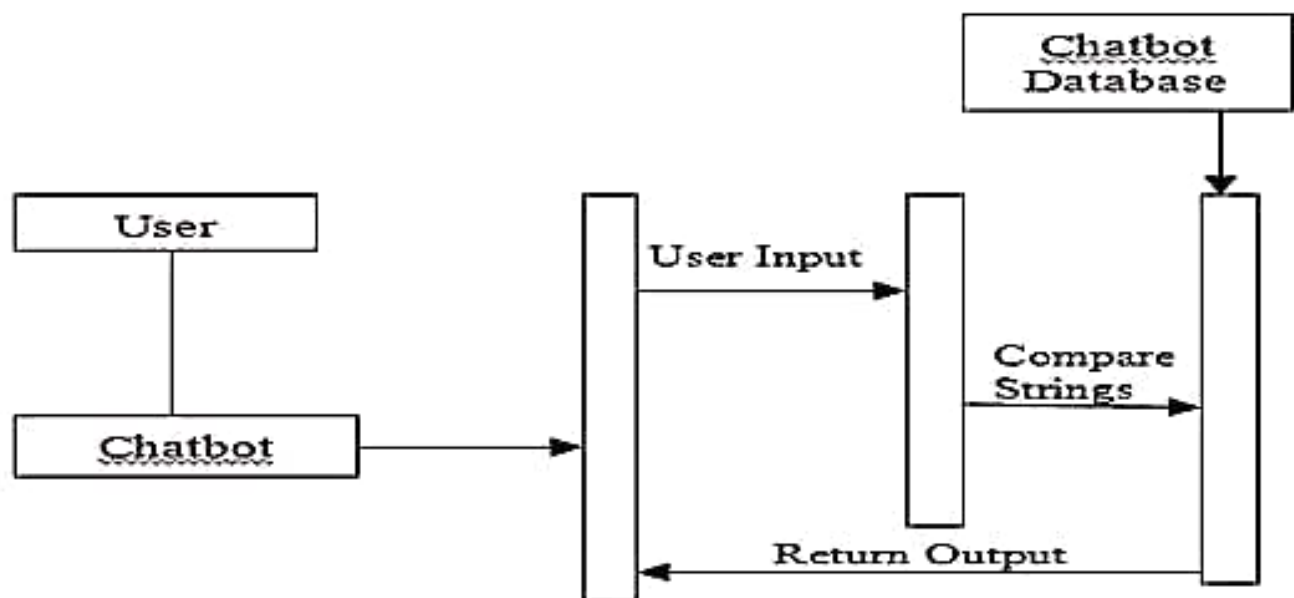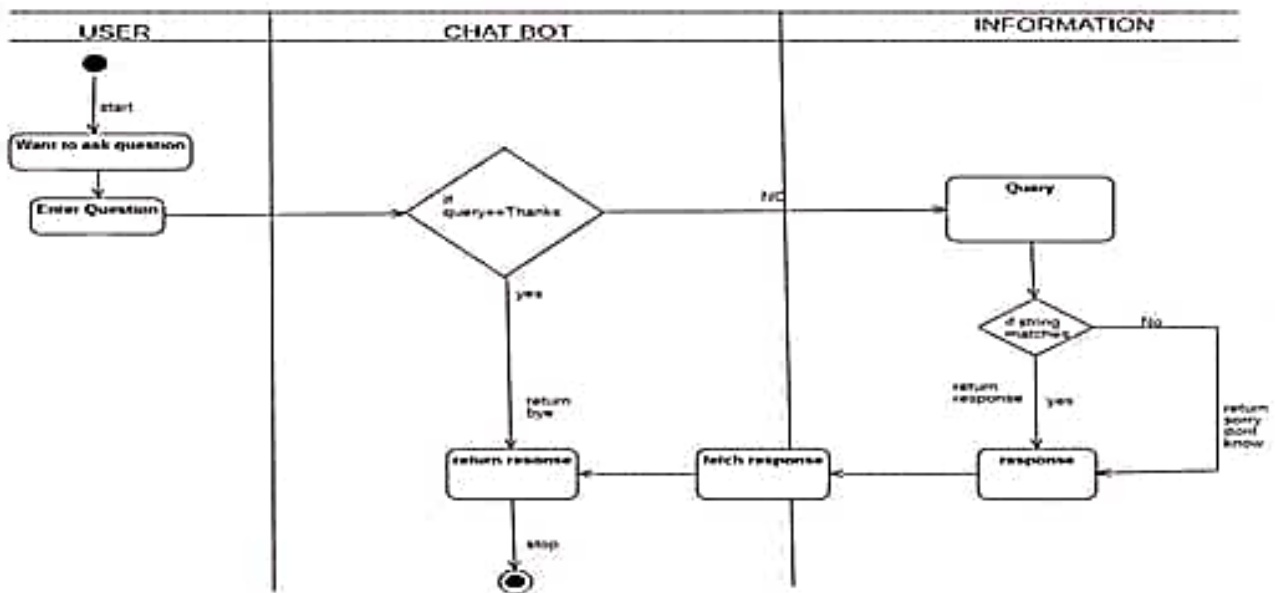
UML DIAGRAMS

USECASE DIAGRAM

CLASS DIAGRAM

☐ SEQUENCE DIAGRAM

☐ACTIVITY DIAGRAM

Result


```
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 8am-4pm Monday-Friday!
```

intents.json

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

Files

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

You: JNTUACEK full form
Jawaharlal Nehru TechnologicalUniversity 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
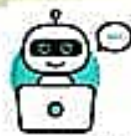
❑It provides immediate feedback

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