

Final Report

Multi-Lingual College Enquiry ChatBot

Artificial Intelligence (INT-404)

By

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ABSTRACT

Our project, as can be told by it's name, is a Chatbot; which refers to a computer program that is capable of doing conversations with human-like instincts (which may include a touch of feelings like excitement, sympathy etc.).

So, our project if simply put, 'talks like a human'. Apart from that this project was made keeping in mind that the talking experience should be flawless, and entertaining since that would allow it to increase it's understanding with the human user. And once, both the sides become comfortable with each other, it enhances the readability of the human user i.e. the primary mode of communication between the user and the program.

This project contains the 'related work' (i.e. the existing work analysis), it's implementation, the result (i.e. the snapshots of output), various libraries used, each team-member's responsibilities, and references (i.e. the source of our research).

Related Work

The goal of our chatbot 'Sean' is to solve any user doubts concerning the college (or, university) in which the user might be studying. This regards anything from the information about the college library to the information about lodging a complaint about any of the residential facilities present in each University opted by the student.

To access the program's functionality, one just needs to execute it. For that, one has to follow the instructions in ReadMe file provided (namely, run.doc). But at execution, Sean will greet the user in a language of your own choice (i.e. either 'English', 'Hindi', or 'Telugu'). Apart from that, he will also answer all the questions in the chosen language only. Currently, Sean is limited to 3 languages (English, Hindi and Telugu), but since the scope of this project depicts it's usage in any generic college, so it might be updated in order to increase support for other languages.

IMPLEMENTATION

That's pretty much about the functionality of the Chatbot. Let's talk about what's behind this project of ours. So, primarily our goal was to create a program which could handle both the backend (i.e. the barebone components for the program to work out in the most expected way) and the frontend (i.e. the GUI components that the user would be able to interact with). But since we were given the responsibility to make our chatbot to be multilingual in nature by our teacher, the G.U.I. part got on hold. Apart from that fact, this chatbot is working in the most expected manner.

So, the chatbot is prepared by the usage of 'nltk' (acronym for Natural Language Processing) library in python. And since this library supports the usage of regex (an acronym for REGular EXpression) which allowed us to add certain basic functionalities (like using the user-inputted data values). Moreover, this also allowed us to add tons of variations to the user's inputs as well as to the program's respective responses. The basic working of this library includes the formation of question-answer pairs. This enables it to match the user input at the runtime with the question string and return a random answer from the corresponding answer list.

Section: K18KK

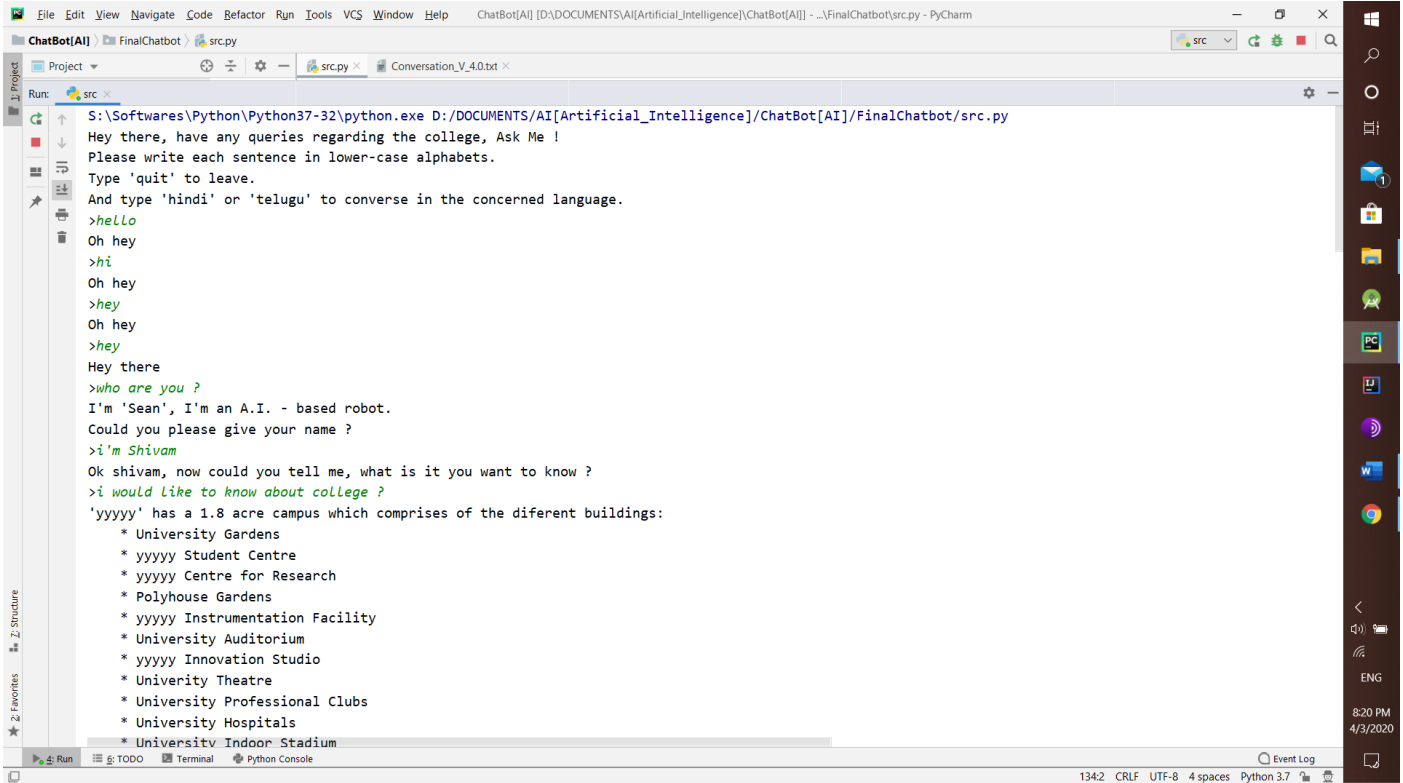
For the other languages, we have implemented a *unilingual interface*, which means that only a single language is used by the interface between the user and the program. So, if user talks in 'Hindi', then the program shall also respond in 'Hindi' to the user.

And hence, the most obvious concept behind this is simply translating the questions in English along with mild to severe modifications (this is done to represent the similar kind of sense as is represented in English).

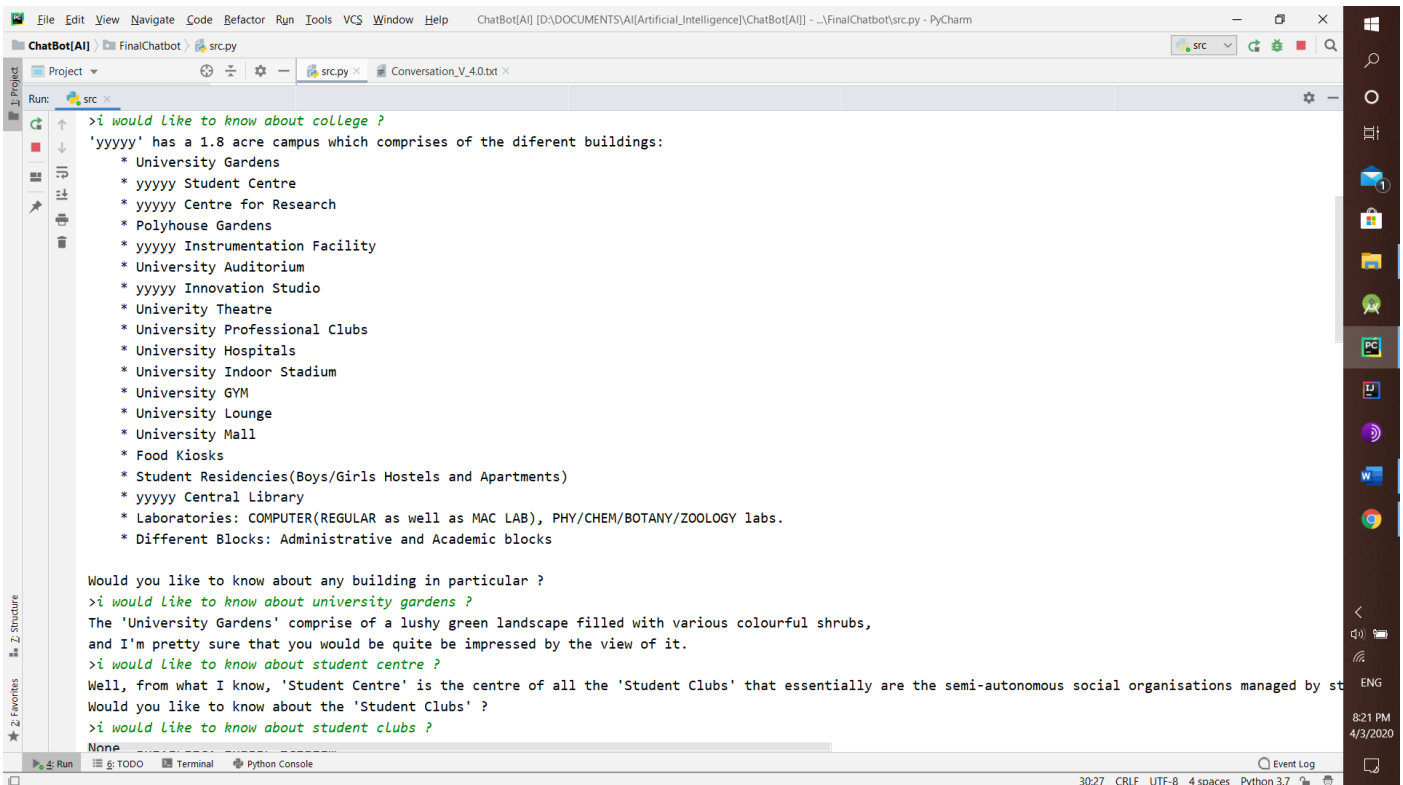
Apart from that one thing to be noted about this is that, we have imported the attribute 'reflections', so as to implement an automatic response to the personal pronouns (like 'I', 'my' / 'mine') as the 2nd person pronouns ('you', 'yours').

RESULT

The following are some screenshots of the chatbot while in action:



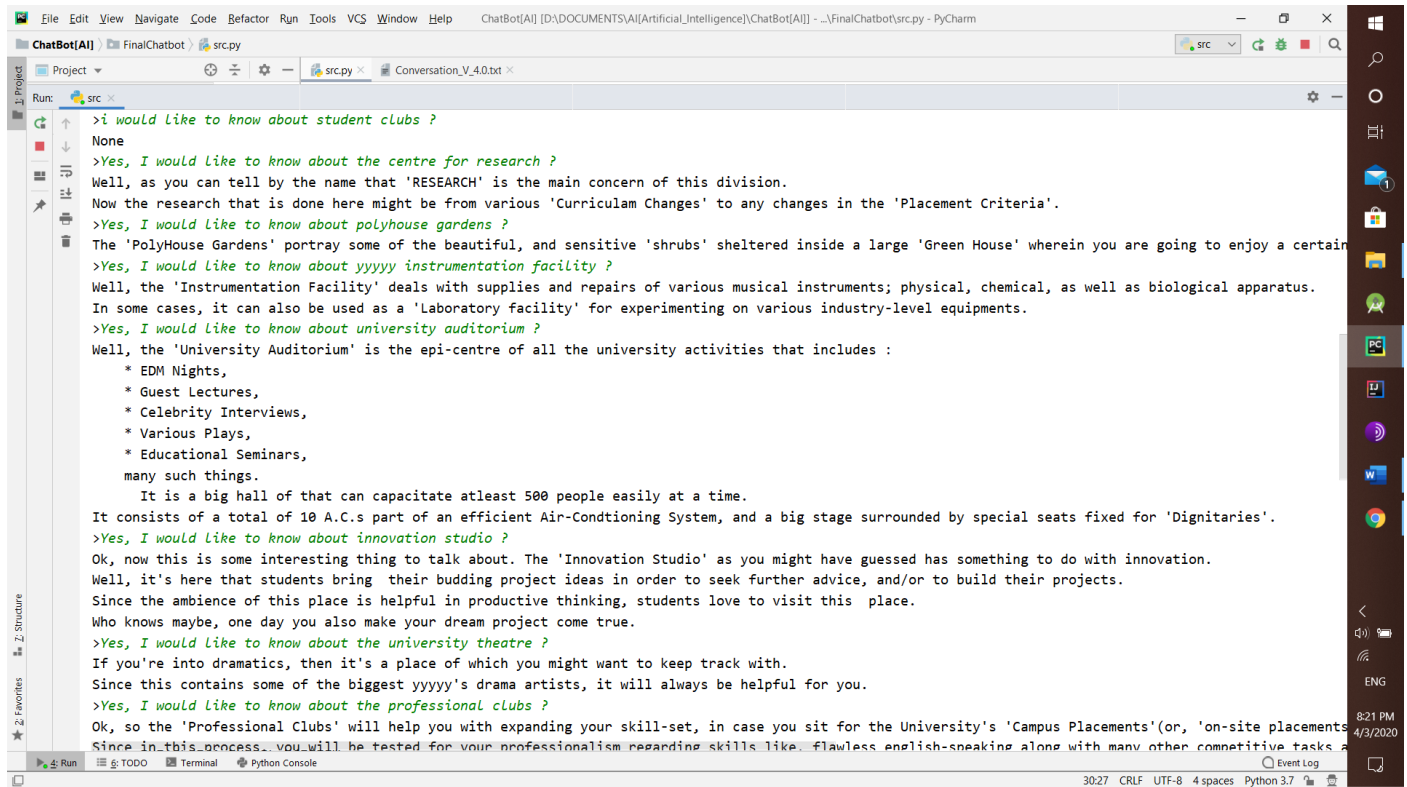
```
File Edit View Navigate Code Refactor Run Tools VCS Window Help ChatBot[AI] [D:\DOCUMENTS\AI\Artificial_Intelligence]\ChatBot[AI] - ..\FinalChatbot\src.py - PyCharm
Project src.py Conversation_V_4.0.txt
Run: src
S:\Softwares\Python\Python37-32\python.exe D:/DOCUMENTS/AI/Artificial_Intelligence/ChatBot[AI]/FinalChatbot/src.py
Hey there, have any queries regarding the college, Ask Me !
Please write each sentence in lower-case alphabets.
Type 'quit' to leave.
And type 'hindi' or 'telugu' to converse in the concerned language.
>hello
Oh hey
>hi
Oh hey
>hey
Oh hey
>hey
Hey there
>who are you ?
I'm 'Sean', I'm an A.I. - based robot.
Could you please give your name ?
>i'm Shivam
Ok shivam, now could you tell me, what is it you want to know ?
>i would like to know about college ?
'yyyyy' has a 1.8 acre campus which comprises of the diferent buildings:
* University Gardens
* yyyyy Student Centre
* yyyyy Centre for Research
* Polyhouse Gardens
* yyyyy Instrumentation Facility
* University Auditorium
* yyyyy Innovation Studio
* Univerity Theatre
* University Professional Clubs
* University Hospitals
* University Indoor Stadium
1342 CRLF UTF-8 4 spaces Python 3.7
```



```
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* yyyyy Innovation Studio
* Univerity Theatre
* University Professional Clubs
* University Hospitals
* University Indoor Stadium
* University GYM
* University Lounge
* University Mall
* Food Kiosks
* Student Residencies(Boys/Girls Hostels and Apartments)
* yyyyy Central Library
* Laboratories: COMPUTER(REGULAR as well as MAC LAB), PHY/CHEM/BOTANY/ZOOLOGY labs.
* Different Blocks: Administrative and Academic blocks

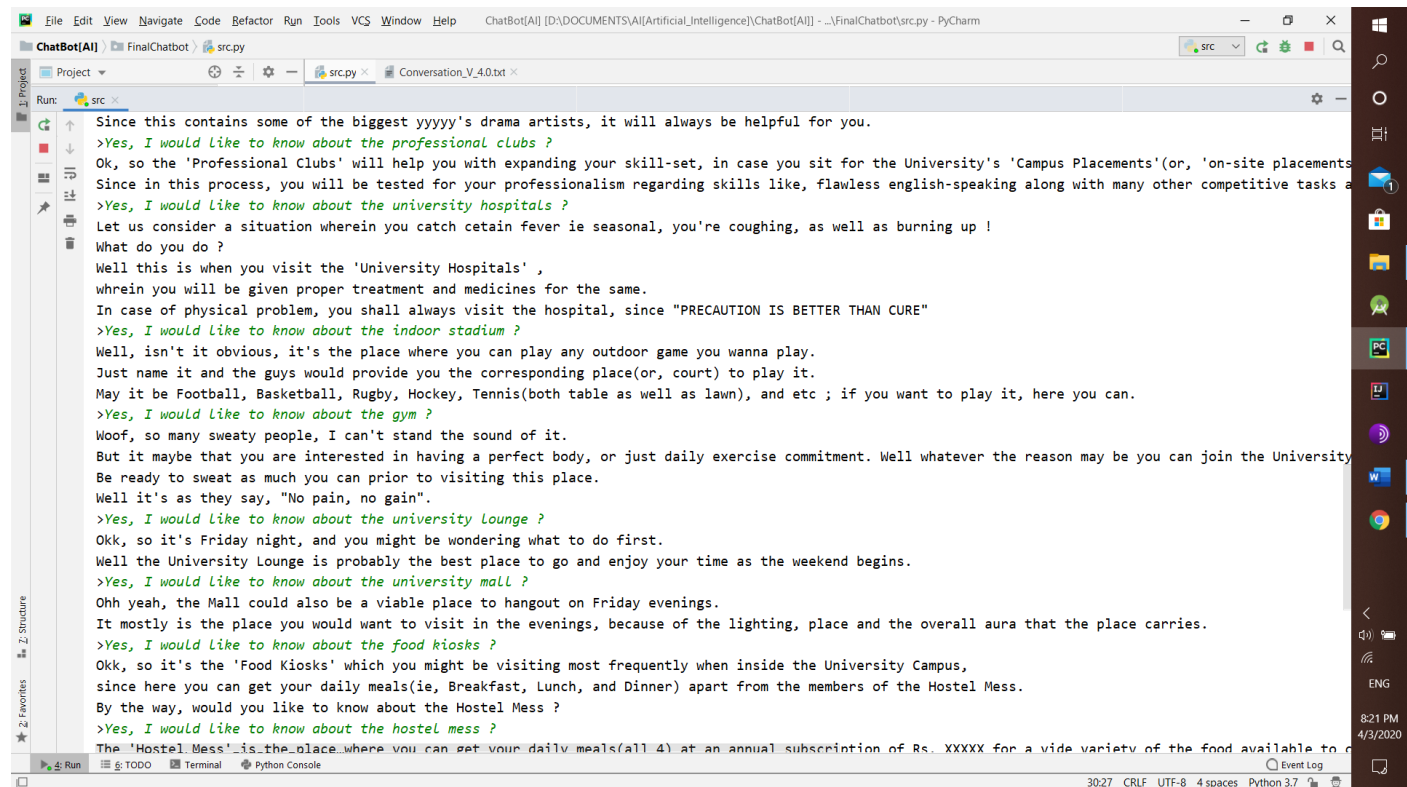
Would you like to know about any building in particular ?
>i would like to know about university gardens ?
The 'University Gardens' comprise of a lushy green landscape filled with various colourful shrubs,
and I'm pretty sure that you would be quite be impressed by the view of it.
>i would like to know about student centre ?
Well, from what I know, 'Student Centre' is the centre of all the 'Student Clubs' that essentially are the semi-autonomous social organisations managed by st
Would you like to know about the 'Student Clubs' ?
>i would like to know about student clubs ?
None
3027 CRLF UTF-8 4 spaces Python 3.7
```

Section: K18KK



The screenshot shows the PyCharm IDE with a project named 'ChatBot[AI]'. The main editor displays a Python file 'src.py' containing a chatbot conversation. The conversation starts with a user asking about student clubs, followed by several questions about university facilities like the research centre, polyhouse gardens, instrumentation facility, and university auditorium. The chatbot provides detailed responses for each query. The status bar at the bottom indicates the file encoding is UTF-8, with 4 spaces and Python 3.7 interpreter.

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help ChatBot[AI] [D:\DOCUMENTS\AI\Artificial_Intelligence\ChatBot[AI]] - ..\FinalChatbot\src.py - PyCharm
ChatBot[AI] FinalChatbot src.py
Project src.py Conversation_V_4.0.txt
Run: src.py
>i would like to know about student clubs ?
None
>Yes, I would like to know about the centre for research ?
Well, as you can tell by the name that 'RESEARCH' is the main concern of this division.
Now the research that is done here might be from various 'Curriculum Changes' to any changes in the 'Placement Criteria'.
>Yes, I would like to know about polyhouse gardens ?
The 'PolyHouse Gardens' portray some of the beautiful, and sensitive 'shrubs' sheltered inside a large 'Green House' wherein you are going to enjoy a certain
>Yes, I would like to know about yyyyy instrumentation facility ?
Well, the 'Instrumentation Facility' deals with supplies and repairs of various musical instruments; physical, chemical, as well as biological apparatus.
In some cases, it can also be used as a 'Laboratory facility' for experimenting on various industry-level equipments.
>Yes, I would like to know about university auditorium ?
Well, the 'University Auditorium' is the epi-centre of all the university activities that includes :
* EDM Nights,
* Guest Lectures,
* Celebrity Interviews,
* Various Plays,
* Educational Seminars,
many such things.
It is a big hall of that can capacitate atleast 500 people easily at a time.
It consists of a total of 10 A.C.s part of an efficient Air-Conditioning System, and a big stage surrounded by special seats fixed for 'Dignitaries'.
>Yes, I would like to know about innovation studio ?
Ok, now this is some interesting thing to talk about. The 'Innovation Studio' as you might have guessed has something to do with innovation.
Well, it's here that students bring their budding project ideas in order to seek further advice, and/or to build their projects.
Since the ambience of this place is helpful in productive thinking, students love to visit this place.
Who knows maybe, one day you also make your dream project come true.
>Yes, I would like to know about the university theatre ?
If you're into dramatics, then it's a place of which you might want to keep track with.
Since this contains some of the biggest yyyyy's drama artists, it will always be helpful for you.
>Yes, I would like to know about the professional clubs ?
Ok, so the 'Professional Clubs' will help you with expanding your skill-set, in case you sit for the University's 'Campus Placements'(or, 'on-site placements
Since in this process.. you will be tested for your professionalism regarding skills like.. flawless english-speaking along with many other competitive tasks a
3027 CRLF UTF-8 4 spaces Python 3.7
```



This screenshot continues the chatbot conversation from the previous one. The user asks about the professional clubs, and the chatbot explains their role in expanding skills and preparing for campus placements. The conversation then moves to university hospitals, indoor stadiums, gyms, university lounges, and food kiosks. The chatbot provides comprehensive information for each topic, including advice on visiting and participating in these facilities. The status bar remains the same, showing UTF-8 encoding and Python 3.7.

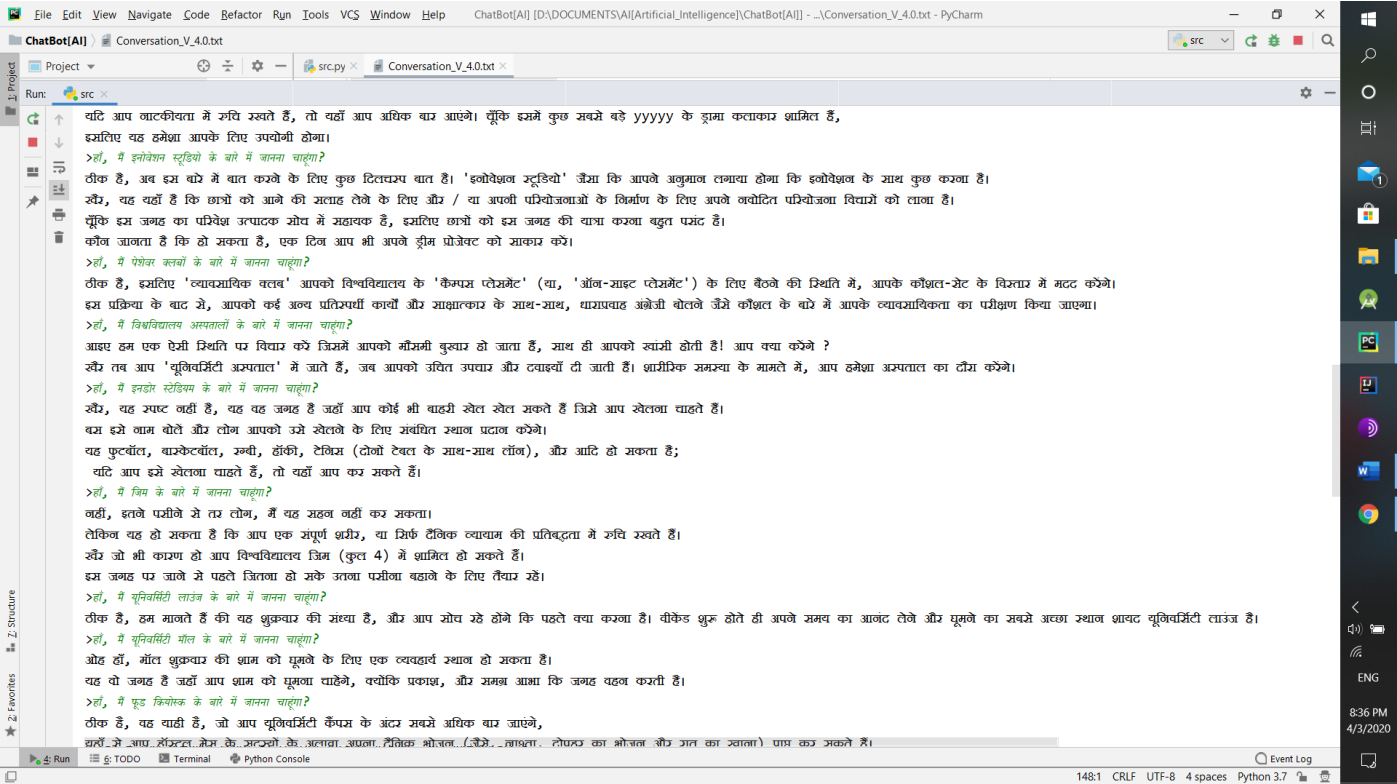
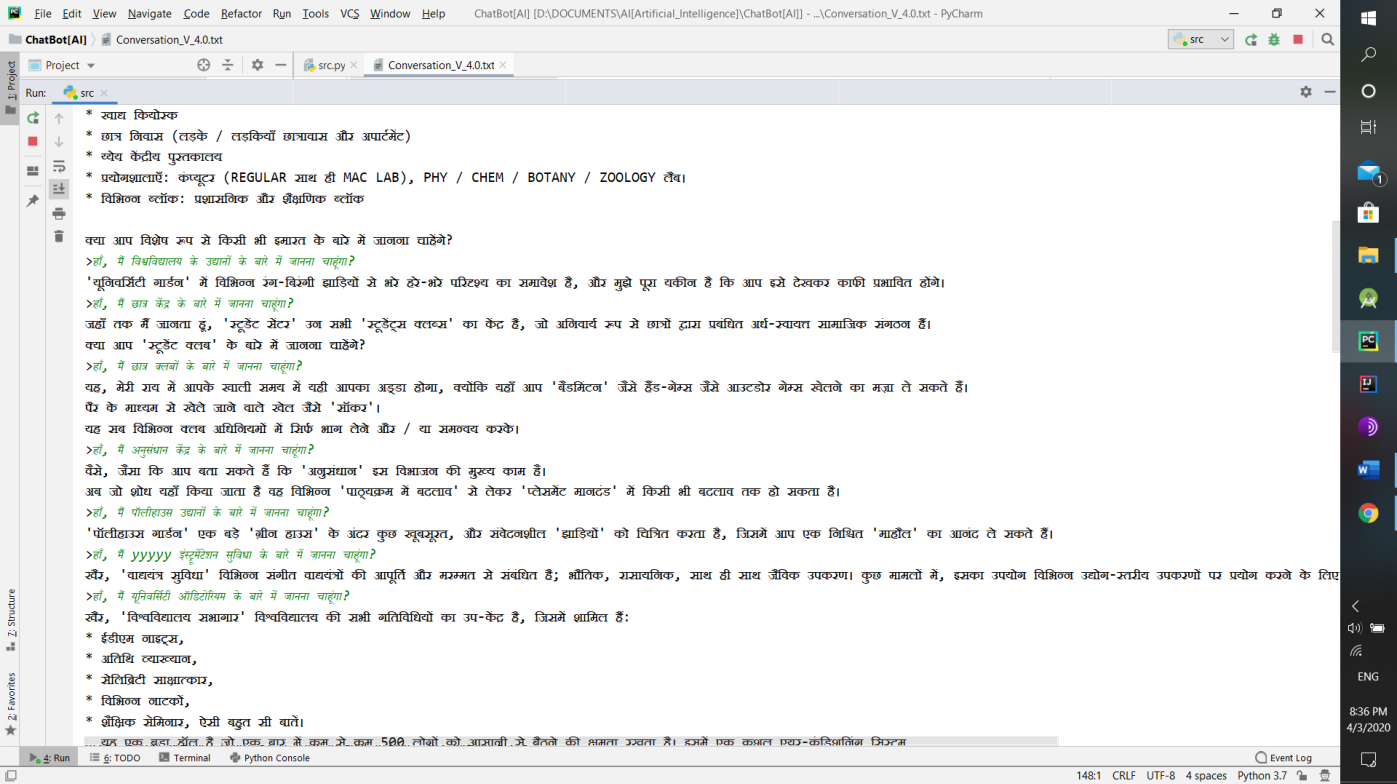
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ChatBot[AI] FinalChatbot src.py
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Run: src.py
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Ok, so the 'Professional Clubs' will help you with expanding your skill-set, in case you sit for the University's 'Campus Placements'(or, 'on-site placements
Since in this process, you will be tested for your professionalism regarding skills like, flawless english-speaking along with many other competitive tasks a
>Yes, I would like to know about the university hospitals ?
Let us consider a situation wherein you catch cetain fever ie seasonal, you're coughing, as well as burning up !
What do you do ?
Well this is when you visit the 'University Hospitals' ,
whrein you will be given proper treatment and medicines for the same.
In case of physical problem, you shall always visit the hospital, since "PRECAUTION IS BETTER THAN CURE"
>Yes, I would like to know about the indoor stadium ?
Well, isn't it obvious, it's the place where you can play any outdoor game you wanna play.
Just name it and the guys would provide you the corresponding place(or, court) to play it.
May it be Football, Basketball, Rugby, Hockey, Tennis(both table as well as lawn), and etc ; if you want to play it, here you can.
>Yes, I would like to know about the gym ?
Woof, so many sweaty people, I can't stand the sound of it.
But it maybe that you are interested in having a perfect body, or just daily exercise commitment. Well whatever the reason may be you can join the University
Be ready to sweat as much you can prior to visiting this place.
Well it's as they say, "No pain, no gain".
>Yes, I would like to know about the university lounge ?
Okk, so it's Friday night, and you might be wondering what to do first.
Well the University Lounge is probably the best place to go and enjoy your time as the weekend begins.
>Yes, I would like to know about the university mall ?
Ohh yeah, the Mall could also be a viable place to hangout on Friday evenings.
It mostly is the place you would want to visit in the evenings, because of the lighting, place and the overall aura that the place carries.
>Yes, I would like to know about the food kiosks ?
Okk, so it's the 'Food Kiosks' which you might be visiting most frequently when inside the University Campus,
since here you can get your daily meals(ie, Breakfast, Lunch, and Dinner) apart from the members of the Hostel Mess.
By the way, would you like to know about the Hostel Mess ?
>Yes, I would like to know about the hostel mess ?
The 'Hostel Mess' is the place where you can get your daily meals(all 4) at an annual subscription of Rs. XXXXX for a vide variety of the food available to c
3027 CRLF UTF-8 4 spaces Python 3.7
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Section: K18KK

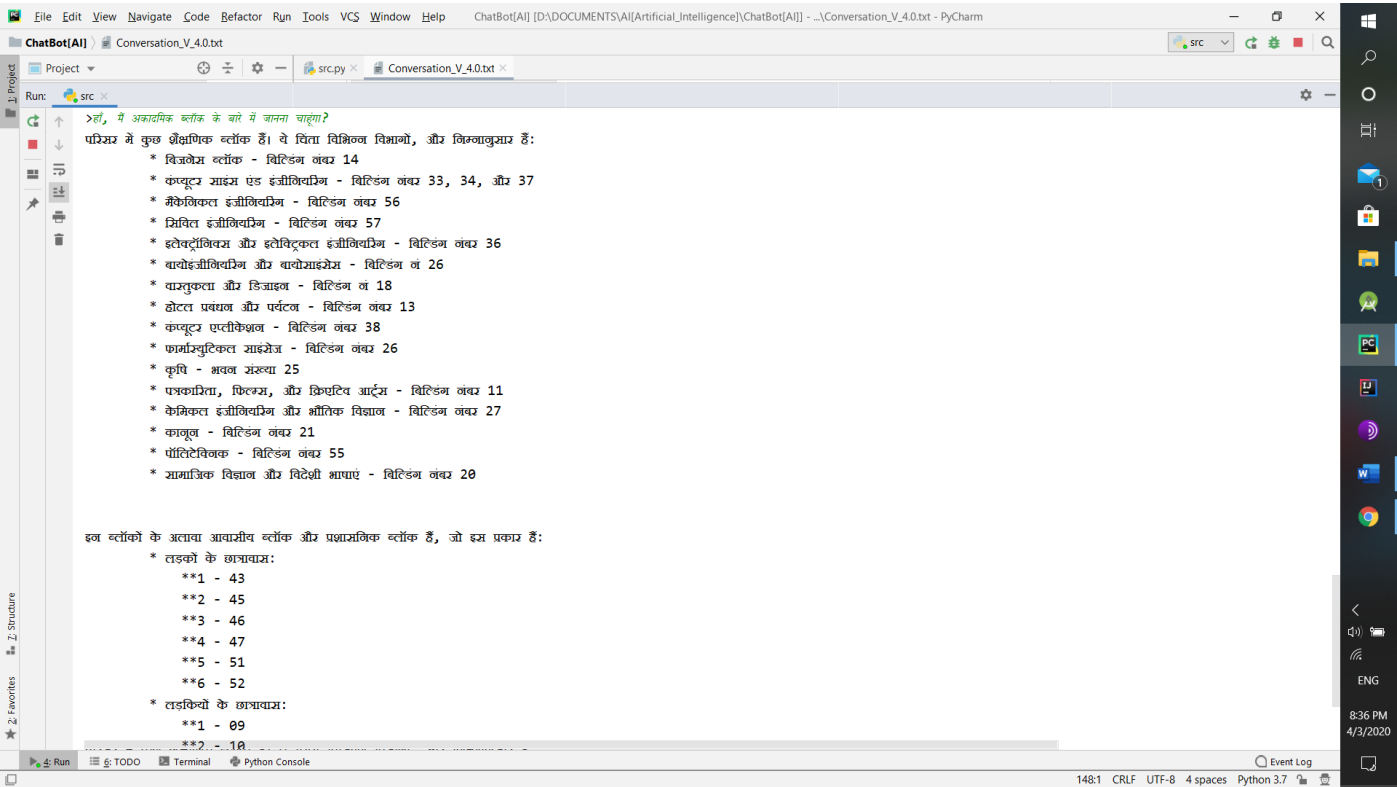
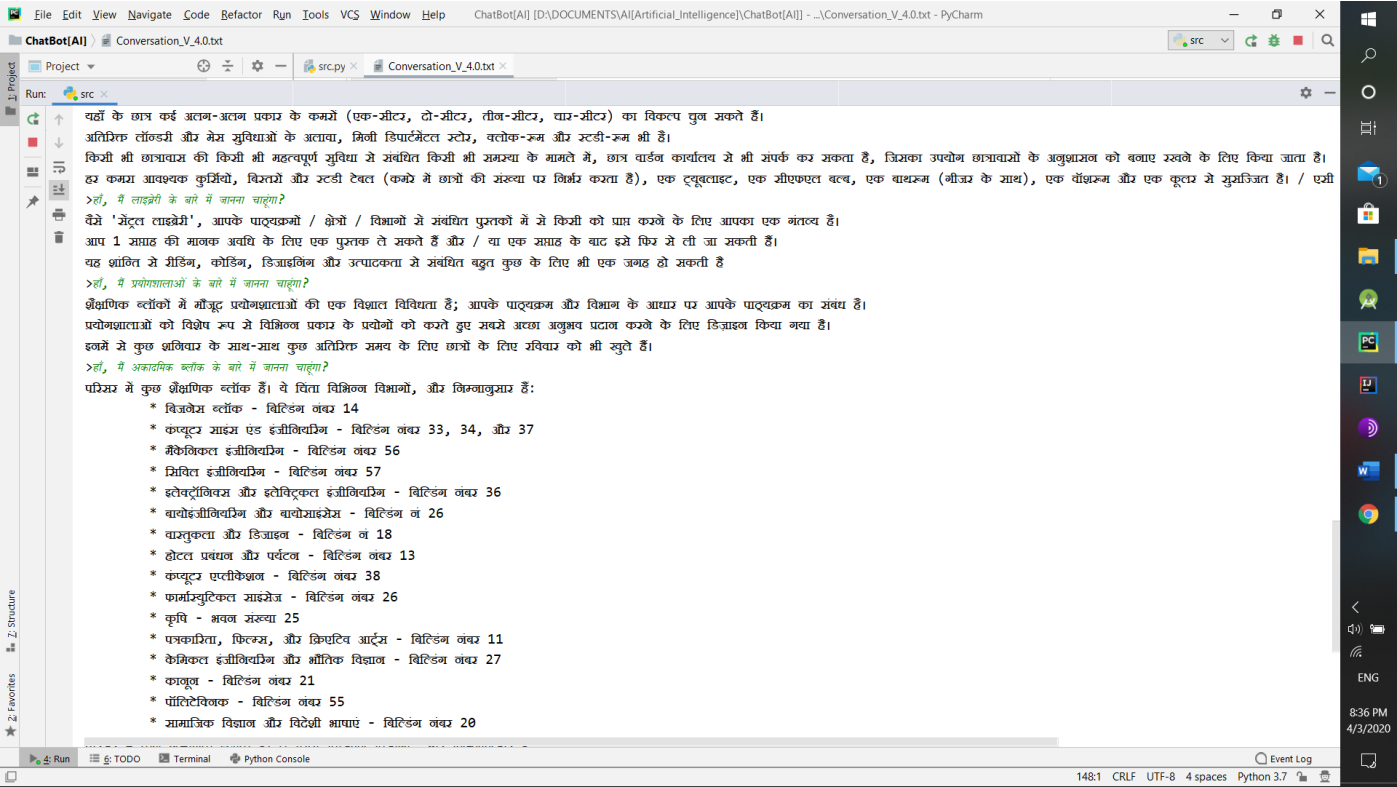
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ChatBot[AI] FinalChatbot src.py
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Run: src
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Well the University Lounge is probably the best place to go and enjoy your time as the weekend begins.
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By the way, would you like to know about the Hostel Mess ?
>Yes, I would Like to know about the hostel mess ?
The 'Hostel Mess' is the place where you can get your daily meals(all 4) at an annual subscription of Rs. XXXXX for a vide variety of the food available to c
NOTE - Only available for those who opted for Hostel facilities.
>Yes, I would Like to know about the student residencies / hostels ?
The 'Student Residencies' or as they are commonly known as 'Hostels', are the buildings that reside the students of the University.
The students here can opt for many different kinds of rooms (one-seater, two-seater, three-seater, four-seater).
Apart from the additional Laundry and Mess facilities, there is the Mini Departmental Store, Cloak Room, and the Study Room.
In case of any misconduct and/or problem regarding any important related matter to any of the provided hostel facilities, the student can also approach the W
which is used to maintain the discipline of the Hostels.
Every room is equipped with the required amount of Chairs, Beds, and Study Tables(depends on the no. of the students in the room), a tubelight, a CFL bulb,
>Yes, I would Like to know about the Library ?
Well the 'Central Library', is your go-to destination for getting any of the books respective to your courses/fields/departments.
You can issue a book for a standard period of 1 week and/or reissue it after a week.
It can also be a place for undisturbed reading, coding, designing, and pretty much anything related to productivity.
>Yes, I would Like to know about the Labs ?
There is a vast variety of labs present in the Academic blocks; depending on your course and the department your course is concerned with.
The labs are specifically designed to provide the best experience while performing experiments of various sorts.
Some of these are open on Saturdays as well as Sundays for Students to practise for some extra time.
>Yes, I would Like to know about the academic blocks ?
None
Run TODO Terminal Python Console Event Log
30:27 CRLF UTF-8 4 spaces Python 3.7
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File Edit View Navigate Code Refactor Run Tools VCS Window Help ChatBot[AI] [D:\DOCUMENTS\AI\Artificial_Intelligence]\ChatBot[AI] - ...Conversation_V_4.0.txt - PyCharm
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Hey there, have any queries regarding the college, Ask Me !
Please write each sentence in lower-case alphabets.
Type 'quit' to leave.
And type 'hindi' or 'telugu' to converse in the concerned language.
>hindi
आपका बहुत बहुत स्वागत है। कॉलेज के बारे में कोई सवाल है, मुझसे पूछो!
>आप कौन हैं ?
मेरा नाम 'शाव' है, मैं ए.आई. - आधारित रोबोट। क्या आप अपना नाम बता सकते हैं?
>मैं निक् हूँ
ठीक है निक्, अब आप बता सकते हैं कि आप क्या जानना चाहते हैं?
>मैं कॉलेज के बारे में जानना चाहता?
'yyyy' में 1.8 एकड़ का परिसर है, जिसमें अलग-अलग इमारतें हैं:
* यूनिवर्सिटी गार्डन
* यyyyy छात्र केंद्र
* अनुसंधान के लिए यyyyy केंद्र
* पोलीटेक्निक गार्डन
* यyyyy इंस्ट्रुमेंटेशन सुविधा
* विश्वविद्यालय सभागार
* यyyyy नवाचार स्टूडियो
* यूनीवर्सिटी थियेटर
* यूनिवर्सिटी प्रोफेशनल क्लब
* विश्वविद्यालय अस्पताल
* विश्वविद्यालय इंडोर स्टेडियम
* विश्वविद्यालय GYM
* यूनिवर्सिटी लाउंज
* यूनिवर्सिटी गैलरी
* खाद्य किचन/कैफे / लडकियाँ छात्रावास और अपार्टमेंट
* खेद केन्द्रिय पुस्तकालय
* खोज/अनुसंधान: कक्षाएं (REGULAR आर.सी. MAC I AR) . PHY / CHEM / BOTANY / ZOOLOGY लैब।
Run TODO Terminal Python Console Event Log
148:1 CRLF UTF-8 4 spaces Python 3.7
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File Edit View Navigate Code Refactor Run Tools VCS Window Help ChatBot[AI] [D:\DOCUMENTS\AI\Artificial_Intelligence\ChatBot[AI]] - \Conversation_V_4.0.txt - PyCharm
ChatBot[AI] Conversation_V_4.0.txt
src
Run: src
* कॉलेज एप्लीकेशन - विडिओ नंबर 38
* फार्मास्यूटिकल माइनेज - विडिओ नंबर 26
* कृषि - अवन संख्या 25
* पत्रकारिता, फिल्म, और किंगडम आर्ट्स - विडिओ नंबर 11
* केमिकल इंजीनियरिंग और शौचिक विज्ञान - विडिओ नंबर 27
* कानून - विडिओ नंबर 21
* पॉलिटेक्निक - विडिओ नंबर 55
* सामाजिक विज्ञान और विदेशी भाषाएं - विडिओ नंबर 20

इन ब्रॉचों के अलावा आयातीय ब्रॉच और प्रशासनिक ब्रॉच हैं, जो इस प्रकार हैं:
* लड़कों के छात्रावास:
  **1 - 43
  **2 - 45
  **3 - 46
  **4 - 47
  **5 - 51
  **6 - 52
* लड़कियों के छात्रावास:
  **1 - 09
  **2 - 10
  **3 - 11
  **4 - 12
  **5 - 21
  **6 - 22

* एडमिशन ब्रॉच - विडिओ नंबर 30, 31 और 32
* प्रशासन ब्रॉच - विडिओ नंबर 28 और 29
```

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File Edit View Navigate Code Refactor Run Tools VCS Window Help ChatBot[AI] [D:\DOCUMENTS\AI\Artificial_Intelligence\ChatBot[AI]] - \Conversation_V_4.0.txt - PyCharm
ChatBot[AI] Conversation_V_4.0.txt
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Run: src
S:\Softwares\Python\Python37-32\python.exe D:\DOCUMENTS\AI\Artificial_Intelligence\ChatBot[AI]\FinalChatbot\src.py
Hey there, have any queries regarding the college, Ask Me !
Please write each sentence in lower-case alphabets.
Type 'quit' to leave.
And type 'hindi' or 'telugu' to converse in the concerned language.
>telugu
హ, కాలేజీ సంబంధించి ఏదైనా ప్రశ్నలు ఉంటే, నన్ను అడగండి!
>నా పేరు నిఖా
None
>నేను మౌలిక సదుపాయాల గురించి తెలుసుకోవాలనుకుంటున్నాను?
None
>అవును, నేను విశ్వవిద్యాలయ తీరుల గురించి తెలుసుకోవాలనుకుంటున్నాను?
'యూనివర్సిటీ గార్డెన్' వివిధ రంగురంగుల పొదలతో నిండిన పచ్చని ప్రకృతి దృశ్యాన్ని కలిగి ఉంటుంది మరియు మీరు దీనిని చూస్తే మీరు చాలా ఆకట్టుకుంటారని నాకు చాలా ఖచ్చితంగా తెలుసు.
>అవును, నేను విద్యార్థి కేంద్రం గురించి తెలుసుకోవాలనుకుంటున్నాను?
నాకు తెలిసిన దాని నుండి, 'స్టూడెంట్ సెంటర్' అన్ని 'స్టూడెంట్ క్లబ్'లకు కేంద్రంగా ఉంది, అవి తప్పనిసరిగా విద్యార్థులచే నిర్వహించబడి సమీప ఆటల మైదానం సహజంగా ఉంటుంది. మీరు 'స్టూడెంట్ క్లబ్' గురించి తెలుసుకోవాలనుకుంటున్నాను?
>అవును, నేను విద్యార్థి కేంద్రం గురించి తెలుసుకోవాలనుకుంటున్నాను?
ఇది మీ ఉచిత / ఆటల సమయంలో హంగ్ అవుట్ చేయడానికి ఉత్తమమైన ప్రదేశం అని నా అభిప్రాయం, ఎందుకంటే ఇక్కడ మీరు ఫోటోలు నుండి యాక్షన్ కళా ప్రక్రియ వరకు వివిధ ఇండోర్ ఆటలను ఆలాగే 'బ్యాడ్మింటన్' వంటివి ఆడవచ్చు.
>అవును, నేను పరిశోధన కేంద్రం గురించి తెలుసుకోవాలనుకుంటున్నాను?
సరే, ఈ డిజిటల్ యుక్త ప్రధాన అవేళన 'రిసర్చ్' అని మీరు పరుకే చెప్పగలరు. ఇప్పుడు ఇక్కడ జరిపిన పరిశోధన వివిధ 'కంకులం మార్కులు' నుండి 'ఫైన మెంట్ క్లబ్'లో ఉన్నావు.
>అవును, నేను పాలిటెక్నిక్ తీరుల గురించి తెలుసుకోవాలనుకుంటున్నాను?
'పాలిటెక్నిక్ గార్డెన్' ఒక పెద్ద 'గ్రీన్ హౌస్' లోపల ఆశ్రయం పొందిన అందమైన మరియు సున్నితమైన 'పొదలను' చిత్రీకరిస్తుంది, దీనిలో మీరు ఒక నిర్దిష్ట 'చాలావరణాన్ని' ఆస్వాదించవచ్చు.
>అవును, నేను గ్రూప్ ఇన్స్ట్రక్షన్లను సోఫిస్టికేటెడ్ గురించి తెలుసుకోవాలనుకుంటున్నాను?
బాగా, 'ఇన్స్ట్రక్షన్లను పనితీరు' వివిధ సంగీత సాధనాల సరహ మరియు మరమ్మత్తులతో వ్యవహరిస్తుంది; బోకరి, రసాయన, అలాగే జీవ ఉపకరణం. కొన్ని సందర్భాల్లో, వివిధ పరిశ్రమ-స్థాయి పరికరాలపై ప్రయోగాలు ఉంటాయి.
>అవును, నేను విశ్వవిద్యాలయ ఆడిటోరియం గురించి తెలుసుకోవాలనుకుంటున్నాను?
సరే, 'యూనివర్సిటీ ఆడిటోరియం' అన్ని విశ్వవిద్యాలయ కార్యకలాపాలకు ఎం-సెంటర్:
* EDM సెట్టింగ్,
* అతిథి ఉపన్యాసాలు,
* ప్రముఖ ఇంటర్వ్యూలు,
* వివిధ నాటకాలు,
* విద్యా సమీక్షలు,
ఇలాంటివి చాలా ఉన్నాయి ఇది ఒక పెద్ద హాల్, ఒకేసారి కనీసం 500 మందిని సులభంగా ఉంచేటట్ల చేయగలదు. ఇది సుసంపన్నమైన ఎంపర్ కండీషనింగ్ సదుపాయాలు మరియు ముఖ్యంగా ముఖ్యంగా 10 A.C. లు ఉన్నాయి. కలిగి ఉంటుంది.
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Section: K18KK

[illegible][illegible]

Libraries Used: nltk (Chat class and reflections attribute) – a python library abbreviated for Natural Language ToolKit.

Team Responsibilities: So, for this project, each team-member had the following responsibilities:

- Shivam (11807484) –
 - Integration of Natural Language (English) both in 'Conversations.txt' as well as in the 'src.py' file.
 - Integration of Natural Language (Hindi) in 'src.py' file.
 - Creation and Maintaining of Github Repository. Link - <https://github.com/ShiviPro/College-Enquiry-ChatBot> .
 - Testing the code against various inputs.
- Abhinay (11801200)-
 - Integration of Natural language (Telugu) both in 'Conversation.txt' file as well as in 'src.py' file.
 - Integration of Natural Language (Hindi) in 'Conversations.txt'.
 - Maintaining of the Github repository.
 - Refactoring the code for reformatting as well as for efficient code usage.

References:

- <https://nevonprojects.com/college-enquiry-chat-bot/> for reference about project.
- <https://www.geeksforgeeks.org/tokenize-text-using-nltk-python/>
- <https://www.nltk.org/>

Both are used for NLTK library's reference matter.