COLLEGE ENQUIRY CHATBOT

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Abstract - *Often we tend to pay our time interacting with varied chatterboxes on the web, largely targeted at such functions or simply amusement. The chatbots have embedded data that helps them acknowledge the user's question and supply a solution to that. The college enquiry chatbot project is intended exploitation algorithms that interpret user queries and perceive user's message. The college enquiry chatbot project is developed exploitation algorithms that analyze user queries and perceive user message. This technique may be a internet application that gives answers to the student's question. Students would like solely question through the bot want to chat. The program analyzes the user's question and answers it then. The machine responds to the question, as if the person were asking it. The program responds to the students' question with the assistance of algorithms. The system will have a web board which may read any text notices or PDF documents through the links. this can facilitate the user get the relevant notifications modified. The user will not waste a lot of time searching for the acceptable notices.*

Key Words: Chatbot, Database(Knowledge),CodeIgniter (PHP FrameWork) , MySQL

1. INTRODUCTION

Chatbot was a computer application which may speak to human beings naturally, the way we interact with one another . It can replace a person's for several tasks of answering queries. A chatbot is an agent that interacts with users using simple language. it had been built as an effort to fool humans. Several applications of chatbots like Customer Service, call centers etc. uses AI terminology to talk with user. one among the prime goals of chatbots is to resemble an intelligent human and make it difficult for the receiver of the conversation to know the important working along side various architecture and capabilities for his or her usage has widely broadened. These chatbots can prove sufficient to fool the user into believing they're "talking" to a person's being, but are very limited in improving their knowledge domain at runtime, and usually have a very little to no means of keeping track of all the conversational data. Chatbots makes use of machine learning to succeed in AI helping them to know the user query and supply an appropriate response. The chatbots are developed using the synthetic Intelligence terminology for communicating or interacting with the user. This consist a software which can be made up using codeigniter php framework and can help user to talk with machine.

2. MOTIVATION

As students, we require many types of information regarding our college and university during our course. Sometimes getting this information is rather cumbersome and lengthy. Like getting information regarding our fees structure or the due fees remaining is a very lengthy process we have to go to administration building and find the correct window and then look for a no dues form then fill it with correct data and then submit it to the appropriate person and then that person will tell us our due fees. This is all long, hectic and unnecessary. We live in an age of computer science, where automation and simple procedures are easy to achieve. So why have this long and unnecessary process to get this trivial information. We as a computer science student are always looking forward to solving the problems around us using the technology that we learn and how to implement them to achieve ease of usage in real life. This is where we thought of using an intelligent voice bot delivering this information. Think about an application, where all you have to do is ask. You want to know the fee structure of a student, then ask the voice bot about is it clear or not it will tell you. there is no need of doing a lengthy and hectic procedure. if You want to know the process of filling the university exam form, no problem our bot will tell you the steps. It can also solve the dilemma when a student is about to join the college. He/she may want to enquire about the fee structure of various colleges and know their admission procedure. Now in the current system, it can be a long process. You would have to go to various college sites and then check it. Then our voicebox can do it for you in seconds all you will have to do is to ask it. Isn't it easy and convenient?

3. EXISTING SYSTEM

In the olden days students had to visit the college to enquire about details and other information about the college ,which is a time consuming process as well as lengthy procedure for both parents as well as students. now a days there are many changes occurred in the Education system with help of advanced technological improvements. Everything is happening over the internet without any difficulty. In those days for submitting a small application also ,we have to visit that place, but as the days are passing away its completing changing. Collecting the applications manually will be hectic procedure and it also needs a manpower. For reducing that manpower and such difficulties many devices or systems were emerged day by day.

4. PROPOSED SYSTEMS

A Student chatbot project is developed with the help of codeigniter that is widely called a php framework that analyzes user's queries and perceive user's message. The proposed System could be a internet application that provides answers to the queries provided by the scholar or the user. Users will merely question through the chatbot that's used for chatting. Students will chat by using any format there's no specific format the user needs to follow. The answers are applicable what the user queries. If the answers are found to be invalid or not accessible then those queries are hold on into the unrequited table that is essentially created by the admin. Later those queries can updated by the admin, just in case of urgency we are going to provides a message that "our representatives will get in touch with you shortly". This may be displayed once aggregation the specified info from the user. Admin will read invalid answer through portal via login System, it'll permits the admin to get rid of the invalid answer also as in updating the acceptable answer for the question raised by the user. The User will raise any faculty connected activities through the system. The user doesn't ought to in person move to the faculty for enquiry. The System analyzes the question and so answers to the user. The system answers to the question as if it's answered by the person. The system replies with the help of a good Graphical interface which suggests that as if a true person is reprehension the user. The user will question regarding the faculty connected activities through on-line with the assistance of this internet application. this method helps the scholar to be updated regarding the college related information.

4.1 Process Flow Diagram:-

In this section, the basic steps regarding how we provide answers to the user queries will be shown in the following flow chart:-
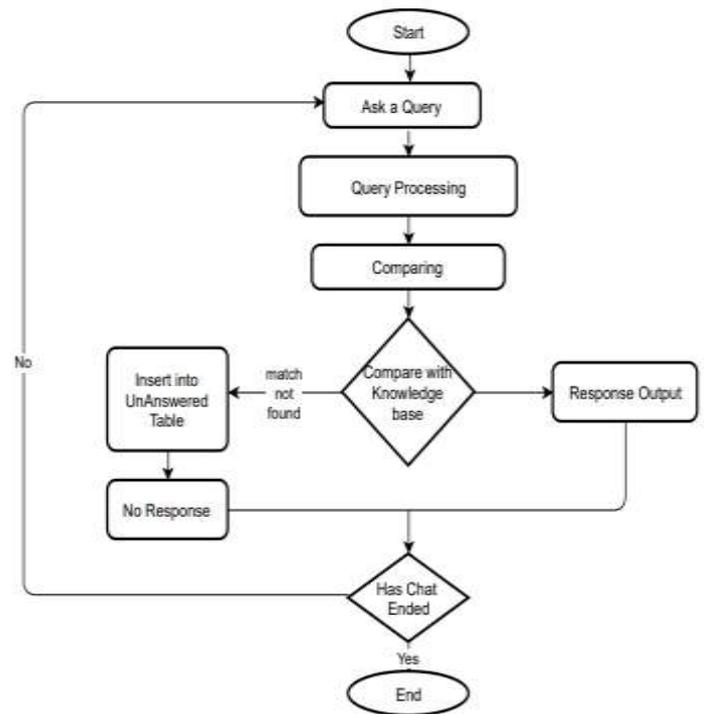

Fig-1: Flow Chart diagram for College Enquiry Chatbot

The above Flow Chart describes the entire process of the system, if the user query is not found in the database then we will collect the details from the user and one of the person from the college will contact the user personally. The answered questions will be stored in the database and the corresponding answers for those queries, will be updated by the Admin.
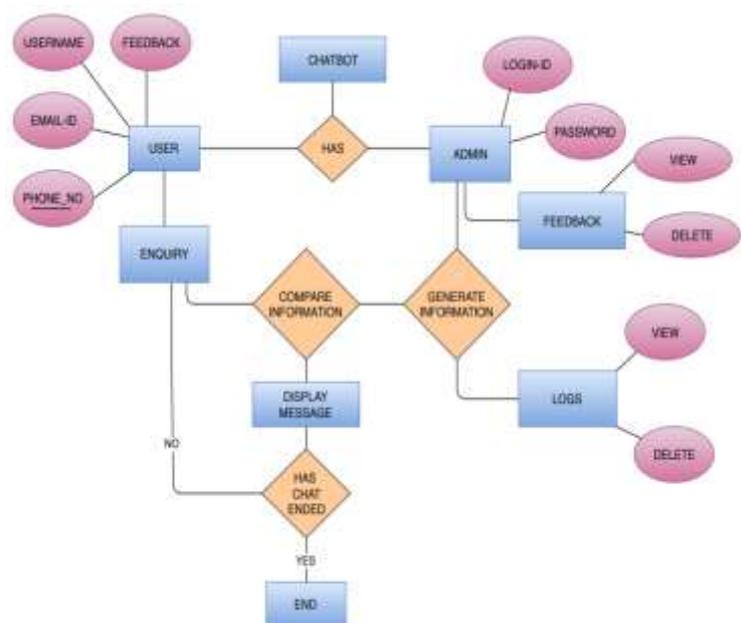
4.2 ER DIAGRAM

Fig-2: ER Diagram for College Enquiry ChatBot

4.3 IMPLEMENTATION

The following figure will illustrate the block diagram for the proposed system:-
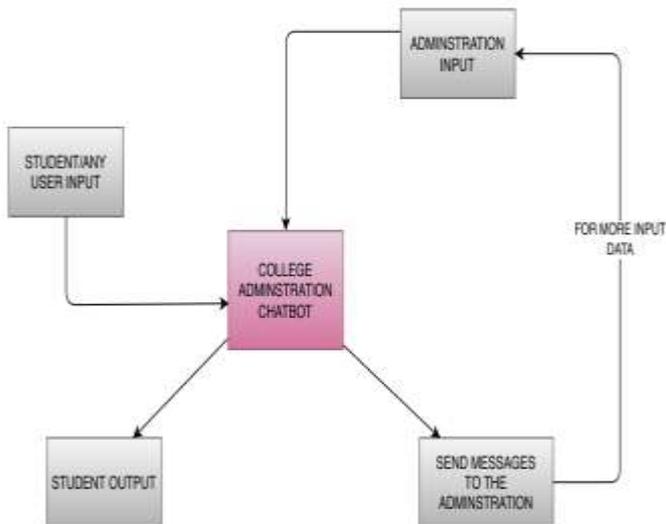

Fig-3: Block Diagram of College Enquiry ChatBot

From the block diagram it is clear that, if student or any other user provides input to the Chatbot then that input will be stored in the database ,the answer related to the query will be displayed to the user.the entire background process will be done by the admin.

4.4 Creation of Tables in the Database

We basically have a database consisting of different tables. These different tables will store key-words, answer-sentences, mutual weight of each key-word corresponding to each answer-sentence and the lists of words to be filtered out. we are having programs for searching through these tables and come up with the most suitable replies corresponding to a particular user's question
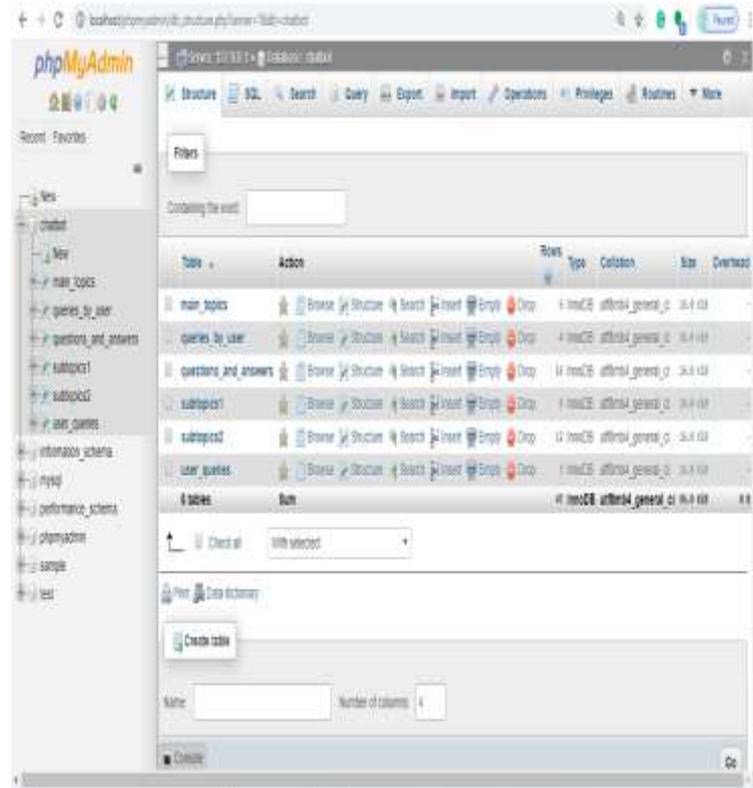

Fig-4: Tables in the Database

5. ADVANTAGES

- For the User, there is no need to visit the college personally to enquiry about the college related information.
- This system aids the students to be updated with college related activities.
- This system is developed aiming at reducing the time for the student, parents as well as the faculty at the institution.

6. DISADVANTAGES

- The response will be slow if too many users try to access the chatbot at the same time.
- This Application need Continues Internet Connection.

7. APPLICATIONS

- College enquiry chatbots help students to the right sources of information.
- Not Only college enquiry chatbot any chatbot will provide them an instant as well as accurate response.
- Enhance Artificial Intelligence Based Chat Bot System will be used in most of the colleges around the country and it can be used in various firms and business-related industries

8. RESULTS AND DISCUSSION

The proposed system was successfully tested to denote its effectiveness and achievability. It basically reduces the paperwork, manpower and time for any individual. In this paper we had developed a system which will interact with the users by means of reducing their time in visiting the college to enquire about the details/information regarding it. The user can chat with the chatbot of any format. The user/student and the Admin are interacted through a chatbot. The questions which are not answered by the chatbot will be updated by the admin.
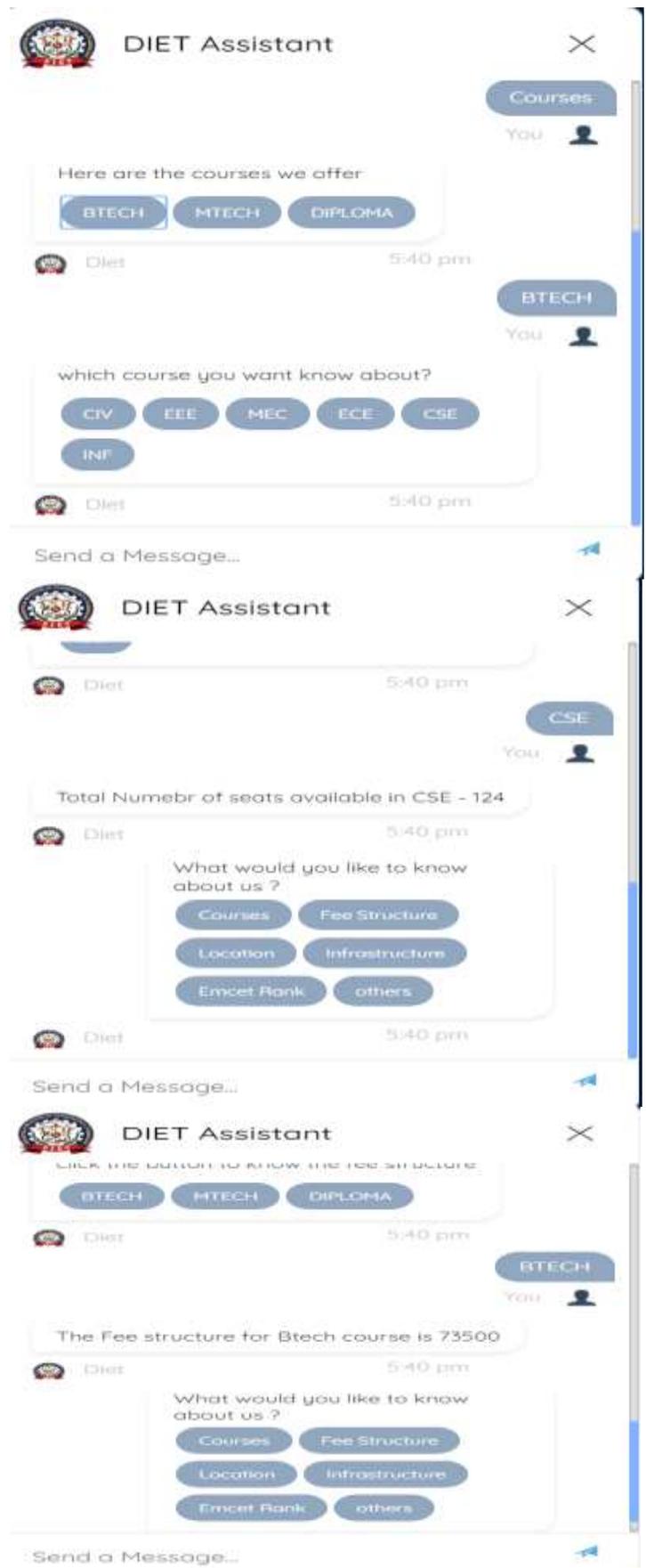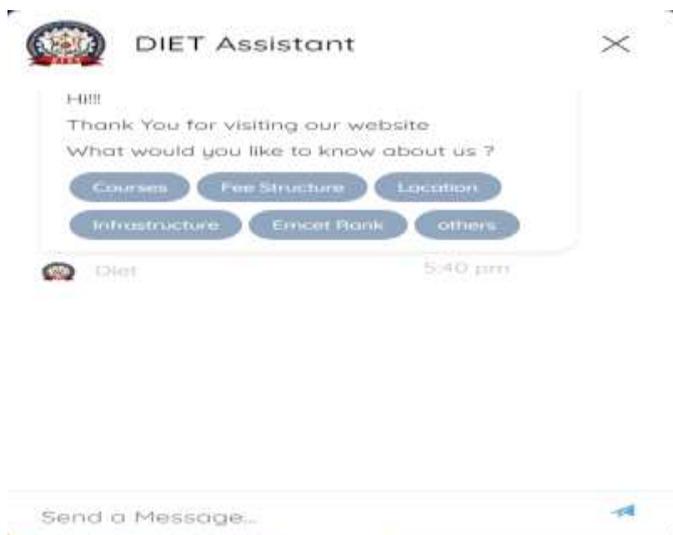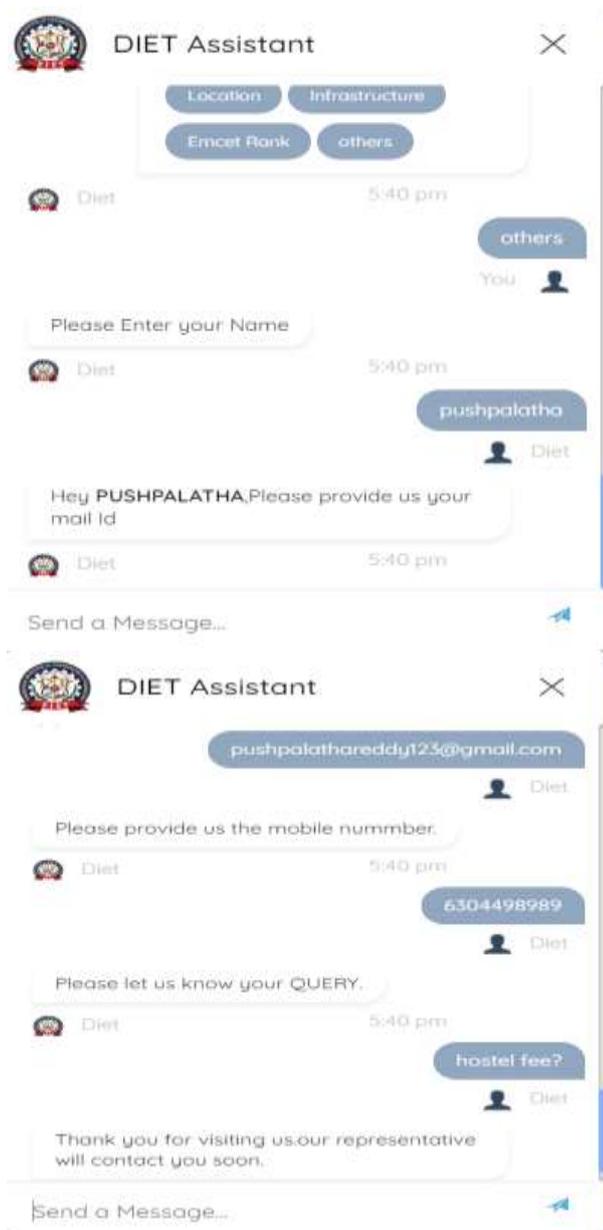The result will be displayed as follows:
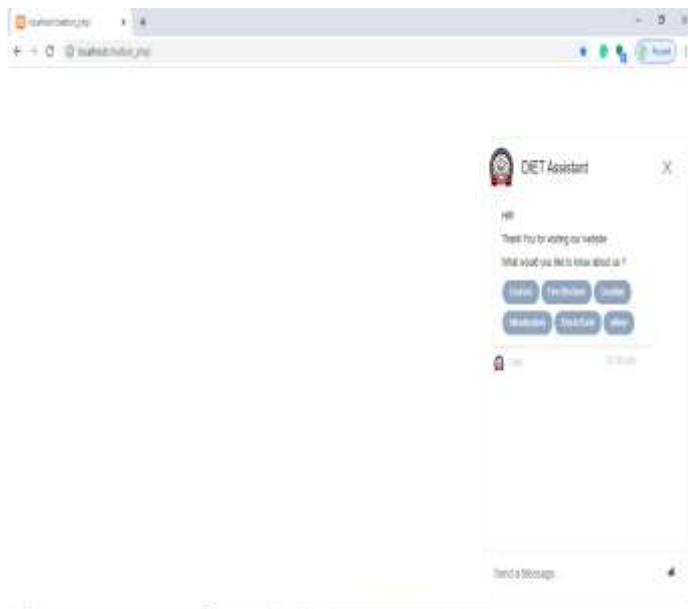
Fig-5 Running the Application in the XAMPP

9. LIST OF OUTPUT SCREENS

A usable system was designed, developed and deployed to the online server on twice. An evaluation happened from data collected by potential students of the University. Also after received feedback from the primary deployment, extra requirements were introduced and implemented

FUTURE SCOPE

In the future enhancement of our project, we can include speech based questions and responses. The users just need to provide voice-based input and the developed bot will provide the text-based output and while giving it, it will provide a voice-based output as well. Just by means of adding speech-to-text and text-to-speech we can improve the functionality to our project.

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10. CONCLUSION

The main objectives of the project were to develop an algorithm which will be wont to identify answers associated with user submitted questions. To develop a database were all the related data are going to be stored and to develop an internet interface. The web interface developed had two parts, one for easy users and one for the administrator. A background research happened, including an summary of the conversation procedure and any relevant chat bots available. A database system was designed, that stores information regarding questions, answers, keywords, logs and feedback messages.