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CLOUD BASED STUDENT INFORMATION CHATBOT

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ABSTRACT

This chatbot project is a College query website to be used by students who wants to get information related to college. The student enquiry Chatbot has the capacity to make friendly conversations; respond to course and faculty details; give the link for the academic calendar; answer the frequently asked questions; calculate the fees based on the students input; and give the timing, contact, address, and events information of the department like Union, library. To build the chatbot Php, Css, Html platforms are used. Student Information Chatbot provide the students to send the text message of the college admin and the admin reply your query. This website is very useful for the students who can not go college and also want the information about college. Students can use the chat bot to get the answers to their questions. Students can use these web based system for making queries at any point of time.

Keywords- Chatbot, AI(Artificial Inteligence), database, PHP, MySql, Sql.

I. INTRODUCTION

Cloud Based Information Chatbot Project- Cloud based student information Chatbot system is artificial algorithm that analyzes the student queries and reply as messages. In this system artificial intelligence is built to answer the query of the student. Answer are appropriate to the users queries if the user is invalid then it will notify the admin and same in answer, if answer is invalid then it will notify the admin.

Admin can view invalid through portal via login. The System allows admin to delete the invalid answer or to add a specific answer of that equivalent question. database stored into the azure cloud which will form a connection between application and cloud server via internet. Chatbot system retrieves the answer from the database which is stored in the cloud. The Chatbot system uses specific "keyword to retrieve the answer from the database. There is no format to follow while asking any question in the chatbot. The student can put up any query related to college activities through the system. The system replies to the user with graphical user interface which implies that the real person is talking to the student. The system helps the student not only together their queries answered but also to be updated with the college activities. The Student chatbot project is using artificial algorithms that analyzes users queries and understand users message. The system is a web application which provides answer to the query of the student. Student just have to query through the bot which is used for chatting. Student can chat using any format there is no specific format the user has to follow. The system use artificial intelligence to answer the query.

Admin view invalid answer through portal via login system. it allows admin to delete the invalid answer and add a specific answer of that equivalent question. User can query any college related activities through the chatbot system. The user do not go to college personally for any enquiry. The System analyzes the question then answers to the user. The System answer to the query as if it is answered by the person.

The chatbot system replies using an effective graphical user interface which implies that the real person is talking to the user. User can query related to the college activities through online with the help of this web application. chatbot system helps the student to be updated the college activities. Another downside which was found during a research on chatbot is that bots are created in such way that they follow a specific route and mostly all of them fails to satisfy anything outside of the previously defined scripts. This means that if they are not part of a predefined scripts, a significant number of the bots will fail in understanding even the most fundamental kind of queries, which results in a repeating and horrendous experience. To resolve this issue, active learning can be introduced to the system to make probabilistic assessment and provide autonomous responses to the user. Active learning is an algorithm which interactively queries user to obtain the desired output. Whenever a user asks anything which is outside of the script the chatbot will ask question a user by giving two to three options and based on the user's input ,the bot returns to that query. This whole learning process is called as active learning.

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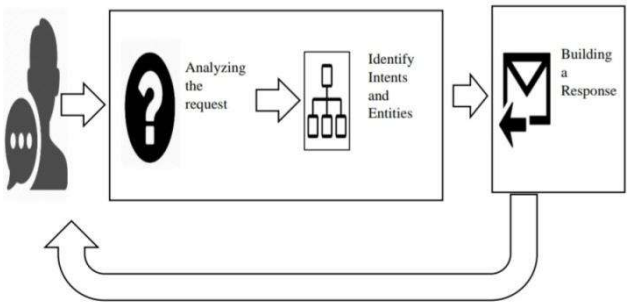

Figure 1: How to work Chat Bot

II. LITERATURE SURVEY

Considerable body of work is associated with chatbot and they have recently become a promising technique for human- computer interaction. Dialogue system have been built to meet a variety of applications and can be applied in a number of fields. A number of selected studies between 2003 and 2013 are reviewed and explained below.

- An extension has been made to the chat bot ViDi when the authors in[1] queries proposed the entire redesign of the vidi chatbot by employing the advantages of a relational database. They added extension and prerequisite algorithm to update ViDi into web-based chatbot. The authors used web programming languages such as PHP,HTML and XHR to implement the coding of the chatbot addition to Asynchronous JavaScript +XML(AJAX). Again Malaysian is used .The extension of ViDi designed in[2] makes it available to users on the internet through a web browser.de
- Introducing new matching models it represents true innovation in chatbot. In [3] the author proposed a new models that produces a new sentence from two existing sentences. The study proposes employing a Genetic Algorithm(GA) to build a new (IJACSA) international journal of Advance computer Science and Application , Volume 6, No.7,2015 78| P a g e www.ijacsa.thesai.org depending on the sentences that are retrieved from an available database. The proposal is to presented in order to adapt the GA to a natural language structure.
- The approach combines indexing and query matching methods with pattern matching and applies information Retrieval (IR) techniques to produce a new sentence from existing ones. In this study, the existing sentences became the initial population of the GA, then it swap and crossover operators were applied to produce the new sentence as a new generation of the GA. Experiment evaluation for the chatbot before and after applying the sentence combination approach were presented. The purpose was to improve the diversity of the Chatbot response. The two main contributions of the study are
  - i) converting two sentences into one and
  - ii) Applying information retrieval techniques to Chatbot.

As seen in the above review, conversational techniques can be applied to a variety of different application involving the interaction between people and computers.

III. RESEARCH METHODOLOGY

The proposed system will have the following moduals:

A. Online Enquiry

1) Exam related query and also query related to the college faculty students can ask using this website

2) The queries related to placement can aks the students.

B. Online Chat Bot:

1) The result can be show in image, cards formate

2) The query will be answered basis of question asks and language model built in php and response store.

3) Use

4) First type of users will college student

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5) Users that want to enquire about the college at the time of admission or any competition held in the college can query in the chatbot.

IV. PROCESS (DIAGRAM)

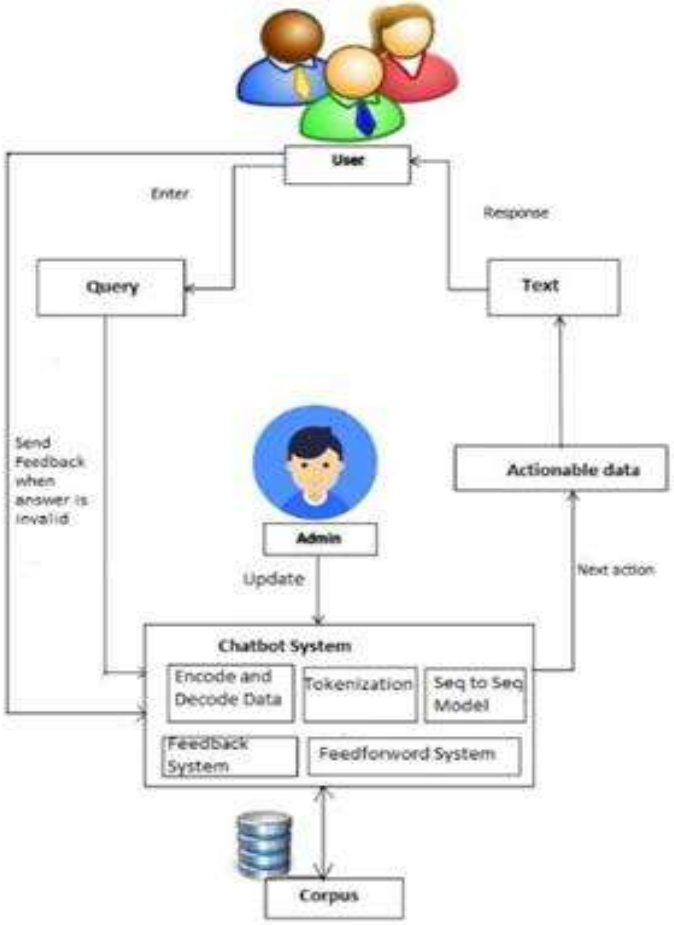

Figure 1: Student Information Chatbot

V. RESULT

The result of this project are measured in whether sentiment analysis and active learning is correctly implemented or not. In this system all the queries such as positive, negative and neural queries and also the conversations are store in the database. the system was partially successful by using the chatbot. it is because, although large amount of data was added to include some common answers to the queries which are off scripts and to add empathy to the bot(so that it understands what is the current mood of the user and responds accordingly), since scope of these queries is vast, the system requires more rigorous data to Handel all the question which are out of script. Active learning helps to improve the bot performance for handling off-script queries. It correctly understand the user's question, asks clarifying, and then re trains the NLP to give response what the user is intended to get. So there is a more benefits of the using chatbots by the students for the enquiry of the college.

VI. CONCLUSION

This website is very useful for the students who can not go college and also want the information about college. Students can use the chat bot to get the answers to their questions. Students can use these web based system for making queries at any point of time. An evaluation took place from data collected by potential students of the college. Also after received feedback from the first deployment, extra requirements were introduced and implemented.

Nevertheless, active helps to improve the bot performance for handling off-script series. so the conclusion is the student chatbot are v ery useful for the students as well as colleges.

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