

## Chutter-Putter College Chatbot

Kunal Patil<sup>1</sup> Anagha Bhole<sup>2</sup> Rakshanda Bhatt<sup>3</sup> Priyanka Singh Bais<sup>4</sup> Prof. Chandrama Waswand<sup>5</sup>  
1,2,3,4,5 SKN Sinhgad Institute Of Technology Science Kusgaon (Bk.) Lonavala, India

**Abstract**— Chat bots typically provide a text-based user interface, allowing the user to type commands and receive text as well as text to speech response. When students have a question about your campus facilities, they don't need to spend time figuring out who to ask. They'll know that the live chat window is their one-stop-shop. They'll instantly get the information they need, and your human staff won't have to keep answering the same questions every year. Onboarding new students becomes a very streamlined process with such detail-oriented chatbot development.

**Key words:** Chatbot, Chatterbot, Pattern Matching, Keyword Matching

### I. INTRODUCTION

In proposed system we are going to develop an algorithm that will be used to identify answers related to user submitted questions. The need is to develop a database where all the related data will be stored and to develop a web interface. The web interface developed will have two parts, one for simple users and one for the administrator. A chat bot (also known as a talk bot, Bot, chatterbox, Artificial Conversational Entity) is a computer program which conducts a conversation via auditory or textual methods [1][2]. Such programs are often designed to convincingly simulate how a human would behave as a conversational partner, thereby passing the Turing test. Chat bots are typically used in dialog systems [1] for various practical purposes including customer service or information acquisition [2]. Chat bots are often integrated into the dialog systems of, for example, automated online assistants, giving them the ability of, for example, small talking or engaging in casual conversations unrelated to the scopes of their primary expert systems [2][3]. College Enquiry Chat Bot project will be built using artificial intelligence algorithms that will analyze users queries and understand users message. This system will be a web application which will provide answers to the queries of the students. Students will just have to select the category for the department queries and then ask the query to the bot that will be used for chatting. Artificial intelligence will be used to answer the students queries. The student will get the appropriate answers to their queries. The answers will be give using the built in artificial intelligence algorithms. Students won't have to go to the college to make the enquiry. The system replies using an effective Graphical user interface which implies that as if a real person is talking to the user. The user just has to register himself to the system and has to login to the system. After login user can access to the various helping pages. Various helping pages has the bot through which the user can chat by asking queries related to college activities. The system replies to the user with the help of effective graphical user interface. The user can query about the college related activities through online with the help of this web application. The user can query college related activities such as date and timing of annual day, sports day, and other cultural activities. This system helps the student to be updated about the college activities.

### II. RELATED WORK

#### A. College Enquiry Chat Bot

This System will be a web application which provides answer to the query of the student very effectively. Students just have to put their query to the bot which is used for chatting. The system will use the artificial intelligence algorithms to give appropriate answers to the user. If the answer is found invalid, then some system to declare the answer as invalid can be incorporated. These invalid answers can be deleted or modified by the admin of the system. The student will not have to go to the college for enquiring something. Student can use the chat bot to get the answers to their queries. Students can use this web based system for making enquiries at any point of time. This system may help students to stay updated with the college activities.

#### B. College Chat-bot system

College Chat-bot system provides appropriate answers as per user queries. The User can query any college related activities through the system. The user does not have to personally go to the college for enquiry. The System analyses the question and then answers to the user. The system answers to the query as if it is answered in person. With the help of artificial intelligence, the system answers the query asked by the students. The system replies using an effective Graphical User Interface, as if a real person is talking to the user. The user just has to register himself to the system and has to login to the system. After logging in the user has access to the various helping pages. The user can query college related activities such as date and timing of annual day, sports day, and other cultural activities. The system replies to the user with the help of effective graphical user interface. The user can query about the college related activities online with the help of this web application.

#### C. College Information Chat Bot System

A CHATBOT is an artificial person, animal or other creature which holds conversations with humans. This could be a text based (typed) conversation, a spoken conversation or even a non-verbal conversation. Chat bot can run on local computers and phones, though most of the time it is accessed through the internet. Chat bot is typically perceived as engaging software entity which humans can talk to. It can be interesting, inspiring and intriguing. It appears everywhere, from old ancient HTML pages to modern advanced social networking

#### D. College Enquiry Chatbot using A.L.I.C.E

In this paper, a proposal is carried on to explain the design of a chat bot specifically tailored as an application which is going to help new students to solve all the problems they face and the questions which arises in their mind during and after the admission. In particular, the proposal investigates the implementation of ALICE chat bot system as an application named as college enquiry chat bot. A keywords-based human computer dialog system makes it possible that the user could

chat with the computer using a natural language, i.e. in English.

System make a computer program designed to simulate an intelligent conversation with one or more human users. We sometimes pass our time by chatting with different chatterboxes available on internet, so to make one of them was indeed an interesting idea. We also had thought of integrating it with speech-to- text and text-to- speech software's and equipping it with face recognition technique.

### III. PROBLEM STATEMENT

In proposed system we are going to develop an algorithm that will be used to identify answers related to user submitted questions. The need is to develop a database where all the related data will be stored and to develop a web interface. The web interface developed will have two parts, one for simple users and one for the administrator.

### IV. EXISTING SYSTEM

In this paper, a proposal is carried on to explain the design of a chat bot specifically tailored as an application which is going to help new students to solve all the problems they face and the questions which arises in their mind during and after the admission . In particular, the proposal investigates the implementation of ALICE chat bot system as an application named as college enquiry chat bot. A keywords-based human computer dialog system makes it possible that the user could chat with the computer using a natural language, i.e. in English.

### V. PROPOSED SYSTEM

This System will be a web application which provides answer to the query of the student very effectively. Students just have to put their query to the bot which is used for chatting. The system will use the artificial intelligence algorithms to give appropriate answers to the user. If the answer is found invalid, then some system to declare the answer as invalid can be incorporated. These invalid answers can be deleted or modified by the admin of the system. The student will not have to go to the college for enquiring something. Student can use the chat bot to get the answers to their queries. Students can use this web based system for making enquiries at any point of time. This system may help students to stay updated with the college activities.

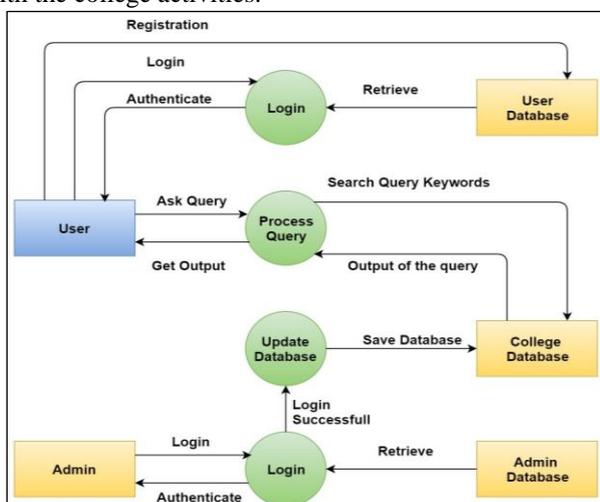


Fig. 1: System Architecture

### VI. ADVANTAGES

- 1) Student can use the chatbot to get the answers to their queries.
- 2) Chat bots typically provide a text-based user interface, allowing the user to type commands and receive text as well as text to speech response.

### VII. CONCLUSION & FUTURE SCOPE

The main objective of the project is to develop an algorithm that will be used to identify answers related to user submitted questions. The need is to develop a database where all the related data will be stored and to develop a web interface. The web interface developed will have two parts, one for simple users and one for the administrator. A background research took place, which included an overview of the conversation procedure and any relevant chat bots available. A database will be developed, which will store information about questions, answers, keywords, logs and feedback messages. A usable system will be designed, developed and deployed to the web server.

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