Voice based University Information Chatbot System

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Voice based University Information Chatbot System

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Abstract: The main aim of our project is to use a voice-bot system for universities such that we will have our work done in less time. This paper shows that we will allow user to control this voice-bot using our voice, by remote appliances and take decisions on the end user's behalf.it helps us to monitor and control our surrounding environment whenever needed. Project mainly uses Artificial intelligence as a source. This artificial intelligence is used to chat using voice as input and sends the response to the whole university. It also takes less time to take the input and give the response back. There is a rapid growth in remote home control systems.

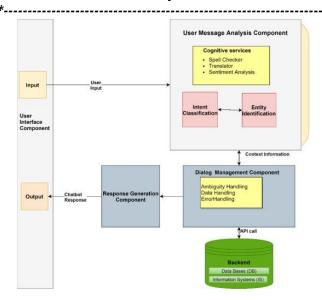
I. INTRODUCTION

It is a software program. A virtual chatbot is a piece of software that is intelligent enough to mimic human interactions. Conversational bots are used in almost every customer interaction, like instantly messaging the client. Since the development of the first chatbot, they have evolved in functionality, interface, and their significance to the technical world cannot be neglected. However, modelling conversations remains a significant challenge in this field even today. Even though they are a long way from perfect, conversational agents are now used in various applications. To understand the capabilities and limitations of current chatbot techniques and architectures, a detailed survey was conducted, where interrelated literature published over the past few years is studied, and a newly presented neural network model is now trained with conversational data. Deep learning and NLP techniques are being used in advanced research and development projects, AI and ML algorithms are implemented in development of conversations. R&D (Research and Development) are still under progress and experimentation in these fields. Conversation agents are predominately used by government administrations, businesses, and non-profit establishments. They are often organized by financial institutions like banking, insurance, startup companies, online stores and social service sectors. These chatbots are implemented by large corporations as well as small startup companies. However, chatbots are not under proper implementation in the medical field. A chatbot can help patients with medical related works by assisting them via text messages, applications, or instant messaging. One can find many virtual bot development structures in the market, both interface-based and code-based.

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II. LITERATURE SURVEY

Basically, this chatbot system is not known to more people who are not keener towards technology. This provides accurate answers to the end user. Students have to attend to college to ask queries from the help disk. Before this chat-bot system invented in the college people having queries have to visit college from miles away to get their queries cleared.

And this chat-bot system helps students to get their queries cleared from home itself using college website itself. It leads to reduce the gap between management and students.

III. PROPOSED METHODOLOGY

Chat -bot is a software program that helps to interact with humans using natural language. These are used in many educational institutions where they are replaced with humans. These chatbots helps to improve customer relations as well as it reduces human efforts.

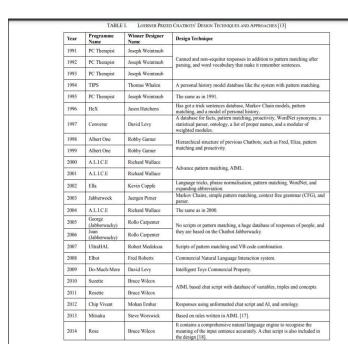
*. ELIZA is the chatbot created by joseph Weinbaum utilize a keyword. ELIZA proceeds its work as per client's requirements.

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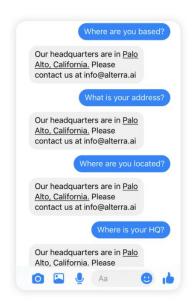
IV.TECHNOLOGIES USED

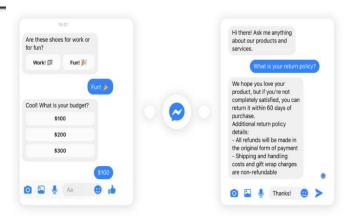
There are basically 2 types of technologies used in developing a chat-bot:

I. AI

II. NLP

- 1. AI: chatbots based on artificial intelligence. These are intelligent chatbot's that can respond within seconds to the end users. This AI chatbots are easy to implement and can still make impact on business areas.
- 2. NLP: chatbots based on Natural Language Processing. These bots can learn overtime to respond like human.





A real estate agent uses a chatbot to save time and get more profit to their business and get more clients. A restaurant also uses a chatbot to order online end to end customers. These attract prospects by showing popup window with offers. They use 100% e-commerce screens.

A Voice-Activation Technology: Amazon echo is an example for this Voice-Activation Technology.

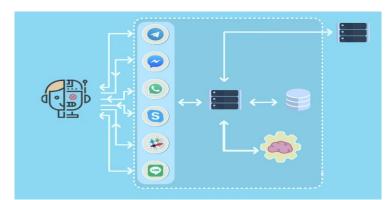
- They are very expensive to use
- They often use a separate device

Interoperability:

Interoperability is very easy to use on social media platforms like: Messenger,facebook,whatsapp,instagram.



V. SYSTEM ARCHITECTURE



Presenters: This layer is responsible for making online calls to show a button, or video

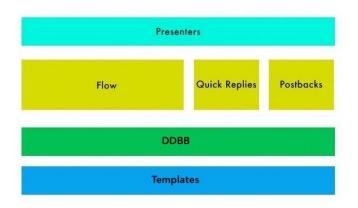
Flow: Executes the logical operations in the Chatbot by using data with web servers and store information.

Quick Replies: These chatbots helps us to get quick responses from the server

Postbacks: Get user input to have actions from flow module.

Repositories: This contains common options that access client's data and templates from website.

Templates: These are predefined actions usually defined with NLP



VI.RESULT

```
> text=r.recognize google(audio)
>> kernel.learn("Learn.aiml")
oading Learn.aiml...done (8.02 seconds)
>> kernel.respond("LOVO")
oading ai.aiml...done (0.02 seconds)
oading astrology.aiml...done (0.00 seconds)
oading atomic.aiml...done (0.27 seconds)
oading biography.aiml...done (0.09 seconds)
oading bot.aiml...done (0.22 seconds)
>> kernel.respond(text)
brtificial intelligence is the branch of engineering and science devoted to constructing machines that think.
```

VII. CONCLUSION

project we implemented the (input-text-output) and also applied AIML script for both the inputs and generate the output. The main objective is to reduce the gap between user and developer. To develop a database were all the related data will be stored and to develop a web interface. The requirements were introduced and implemented. The main disadvantage is that we need to have a proper internet connection or else error occurs.

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