IJIRCCE

e-ISSN: 2320-9801 | p-ISSN: 2320-9798

INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 11, Issue 4, April 2023

INTERNATIONAL STANDARD SERIAL NUMBER INDIA

Impact Factor: 8.379

International Journal of Innovative Research in Computer and Communication Engineering

| e-ISSN: 2320-9801, p-ISSN: 2320-9798| www.ijircce.com | |Impact Factor: 8.379 |

|| Volume 11, Issue 4, April 2023 ||

| DOI: 10.15680/IJIRCCE.2023.1104009 |

AI Based Educational Chatbot

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ABSTRACT: Communication is the best way of sharing information, clearing doubts and acquiring knowledge hence it needs a proper communicator to reduce lack of knowledge , delays in assignment submission due to some reasons . The problem that we are trying to solve is to automate the study using a computer program designs to simulate conversation with human users, especially over the internet. Example of chatbot like Alexa, siri etc.
Productivity :
hatbots provide the assistance or access to information quickly and efficiently. Entertainment : Chatbots amuse people by giving them funny tips, they also help killing time when users have nothing to do.

KEYWORDS: shiksha, chatbot, notes, lectures, give, dbms, os, Wikipedia, hi, start, open, internet, result, youtube, google .

I. INTRODUCTION

A chatbot is a software tool that interacts with users on a certain topic or in a specific domain in a natural, conversational way using text and voice. For many different purposes, chatbots have been used across a wide range of domains, including marketing, customer service, technical support, as well as education and training. Current developments in this area suggest that interaction with technologies, either by natural language or by speech, is possible because technology develops, and users become more used interacting with digital entities. Rather than creating a human-like smart machine application, it is about creating effective digital assistants who are able to provide information, answer questions, discuss a specific topic, or perform a task. Now with the chatbot teachers can Automate their respective tasks. The bot can answer any student query ,be it related to the course, assignment or deadlines while the teachers monitor the student's program. Chatbot also customize content and personalized individual .

Websites allow student to gather the date about their syllabus or study. They can analyse these data and gain valuable insights. Chabot perform better by offering the best suggestion to the user in the environment. They can be improve with feedback and offer perfect answer to queries with faster and specific replies. A Chabot can motivate student to complete digital learning content and with the right AI Technology they can find new content that is relevant to the specific manner. Artificially intelligent chatbot facillited student's learning process by making it more engaging. AI Chabot will virtual teaching assistants that reduce the cycle of task alingned for the teacher on day-to-day base. These chatbot will designed to answer the queries student generally ask like lesson, plans, course or module Chatbot will have personal attention on student and their learning habits. Quality Education in the Future AI Chatbots for education make learning more dynamic and lesson a student's uncertainty about various study areas by providing the answers they need. On the other hand, it also reduces a teacher's burden and improves the teacher-student relationship. The most essential advantage is that students are required to use these digital platforms for training on a daily basis in order to prepare them for the future. Chatbot makers utilize artificial intelligence and the latest conversational design to create

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bots that can communicate with students on all subjects of elementary, secondary, high school and up to university levels. However, AI will not (but may in next 20 something years) replace a student's favourite teacher but can serve as a helper to the teacher or alternatively, the means of modern education. Chatbots can make it easy for users to find the information they need by responding to their questions and requests—through text input, audio input, or both—without the need for human intervention.

II. LITERATURE SURVEY

Now with the chatbot teachers can automate their respective tasks. The bot can answers student query, be it related to course, assignment or deadlines while the teachers monitor the student's program. Chatbot also customize content and personalized individual student experience. Having a chatbot on your websites allow student to gather the date about their syllabus or study. They can analyse these data and gain valuable insights. Chatbot perform better by offering the best suggestion to the user in the environment. They can be improve with feedback and offer perfect answer to the queries with faster and specific replies.

III. PROPOSED WORK

This project proposal is focusing on creating a chatbot to be used by students to get their queries responded easily from the university website. The College Chatbot has the role to make pleasant conversations; answer the course and faculty details; give the link for the academic calendar; answer the regularly asked questions; and give the timings, address, contacts, and events information of the sectors like Union, Library, IPGE, and AIRC. AI- powered chatbots are motivated by the need of traditional websites to provide a chat facility where a bot is required to be able to chat with user and solved queries. There can be some scenarios where a business or school receives same queries in a day for many times and support team must respond to each query repetitively. Lastly, the most important advantage of having a chatbot that it is available 24/7. No matter what time it is, a user can get query solved. All this advantages of a chatbot constitute the motivation to implement a university enquiry chatbot.

USE CASE DIAGRAM

Use case diagram shows the interaction between Use case which represents system functionality and actor which represent the people or system.

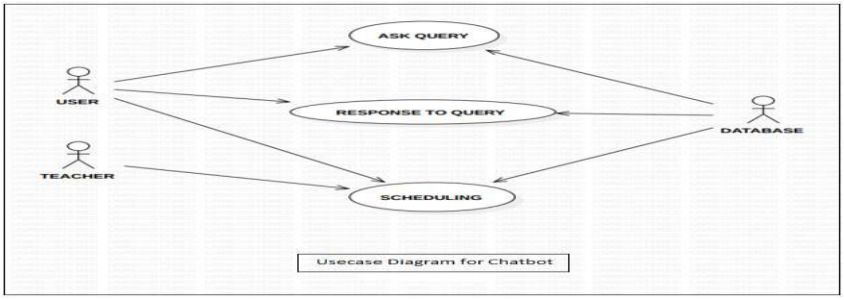

Fig.1 Use Case Diagram

ARCHITECTURE

These chatbot are sophisticated because they are equipped with artificial intelligence (AI). Using Natural Language Processing (NLP) and semantics, they respond to open-ended queries. AI chatbots can identify language, context, and intent and respond accordingly. This type of bot uses end-to-end machine learning to create models based on historical conversation logs, rather than via intent detection and looking up a relevant response in a knowledge base. Despite the fact that they don't stick to a fixed script and they can be quite natural to interact with, they have several downsides:

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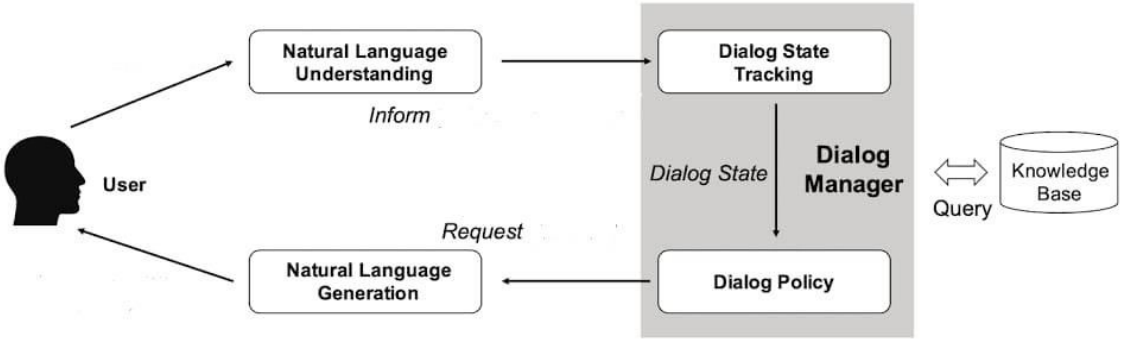


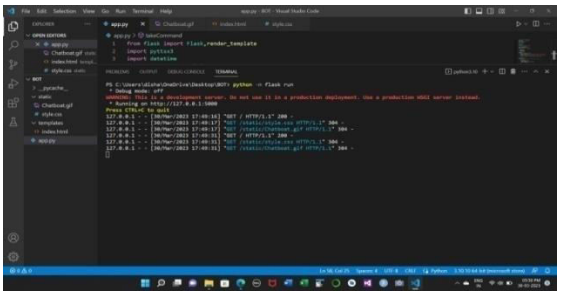
Fig.2 Chatbot Architecture

IV. CONCLUSION

In our proposed project we will have implemented a response giving system which will give a reply to the student's questions.AI is used to implement our system, the user will type his/her queries and then the system will extract the proper keyword from the given query and will produce the given response. The future scope can be implemented in this proposed project in the following manner; If data is not available in a static database then it will be fetched from online sources. Because of this, every answer of the user will be generated eight from online source or static databases so in this way we will implement AI based educational chatbot.

RESULT

Step 1:



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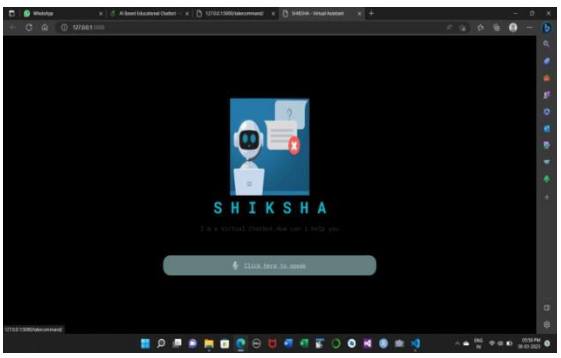

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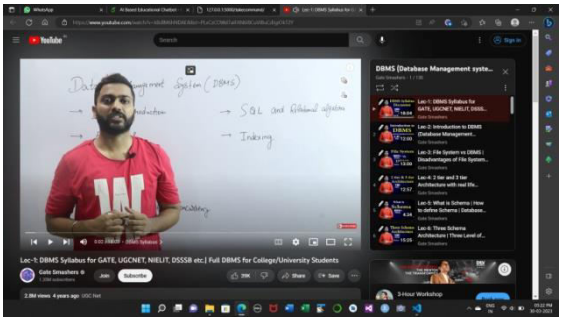
Step 3:



BIOGRAPHY

[1]https://images.app.goo.gl/VQaoGdfZT3JGj5Bq7
[2]https://research.aimultiple.com/chatbot-architecture
[3]https://blog.vsoftconsulting.com/blog/which-nlp-engine-to-use-in-chatbot-development
[4]author(CodeWithHarry),title(https://www.youtube.com/@CodeWithHarry)
[5]-author(CODEINERTIA),title(https://www.youtube.com/@codeinertia8904)
[6]https://en.wikipedia.org/wiki/Use_case_diagram
[7]https://www.researchgate.net/publication/348548023_University_Chat_Bot_Proposal

INNO SPACE
SJIF Scientific Journal Impact Factor

Impact Factor: 8.379

doi cross ref

ISSN INTERNATIONAL STANDARD SERIAL NUMBER INDIA

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