Acumenaid: Intelligent System for College

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Abstract - Clever voice right hand are assuming control over various zones to strengthen the client's comfort and improve the degree of the devices used. They're being acknowledged in contraptions running from mobiles to self-ruling gadgets which fundamentally house the right hand to be solidified with marvelous gadgets. This might be clearly seen with the exponential advancement with the impact it's had on society and reliably creating applications they will be used for. The endeavor shown during this paper expects to arrange one of the recorded voice aide to modernize the conventional techniques for a college structure. The smart right hand gets the assistance for the educator, understudies, visitors endorsing the start of the route toward finding the objective. This is frequently regularly trailed by the commitment from the understudies, instructor, visitors for the information of staff database present on a server. This assistants locate the genuine data, decreasing the time and effort required by the client.

Key Words: Text to discourse, Chatbot, Smart System, Artificial Intelligence.

1. INTRODUCTION

Menial helper is hard to responding to essential client questions. Further development and joining of discourse acknowledgment improves learning calculations for regular learning, Alexa performs endeavors given thereto, with the assistance of its scope of capacities, which involves huge amounts of aptitudes to answer upon every task submitted thereto. Each capacity has its own one of a kind conjuring articulation, which is utilized by Alexa, to depict task thereto explicit aptitude. The force continues to execute the endeavor snared in to its model articulations, by showing up at the endpoint on a server, which might be encouraged on Amazon Web Services (AWS) Lambda, or on a near to server inside the customer's system[3].

This undertaking mauls this specific a bit of Alexa, by making a capacity , which when authorized, finds a useful pace based database of an intrigue record housed on a close to server, which is empowered on a Raspberry Pi. The going to is done through a burrowing association .Ngrok helps by making a protected section and giving a URL of the local server to the Alexa inclination, so on continue invigorating the database[2].

2. LITERATURE SURVEY

The idea proposed by Subhadeep Dey et al. [4] means to use mobile phones gave instinctive voice response systems to see the understudy's quality using talk biometry. The system checks the speaker using MFCC features and I-vector-based showing.

The idea put forth by J. Dhalia Sweetlin et al. [5] utilizes the staff's telephones for the cutoff and strengthening of the collaboration database. the contraption on the telephone keeps up the database and gives overview access to the instructors upon underwriting. The machine contains a discussion recognizer which changes over the said converse with substance and techniques the help.

3. SYSTEM ARCHITECTURE

Our system provides the information regarding our college to new users, guest or parents of our college students. When they ask a question to our hardware related to department also it provides the navigation of each and every area of our college.

For example-During examination period students can easily find exact location of the examination block but also if student unable to reach at the hardware device then he can use our software based application. Alexa: Alexa connects to the internet through Wifi network. Once Alexa hears the voice command followed by the wake word Alexa, it sends them to the natural voice recognition sends service in the cloud called Alexa Voice Service which interprets them and send them back the appropriate response.

Fig: Intelligent System for College

Alexa Procedure:

1. Amazon first records your discourse. Since deciphering sounds takes up a great deal of computational force, the chronicle of your discourse is sent to Amazon's servers to be broke down more efficiently.

2. Amazon separates what you said into singular sounds. It at that point counsels a database containing different words' articulations to find which words most intently relate to the blend of individual sounds.

3. It then identifies key words to make sense of the tasks and carry out corresponding functions. For instance, if Alexa sees words like "climate", it would open the climate application.

4. Amazon's servers send the data back to your gadget and Alexa may talk. On the off chance that Alexa needs to state anything back to us, it would experience a similar procedure depicted above, however in turn around request.

Application:

New user ask a question to hardware or software application regarding college. Alexa takes the input in English as well as Hindi. Application check the answer for the user question in server. If answer related to question is matched in the server it sends the request to database for fetching the information related to the question of user.
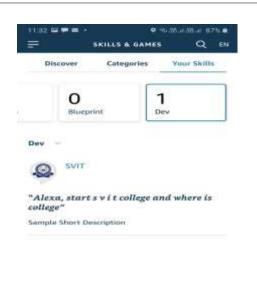
4. TEST CASES AND RESULT

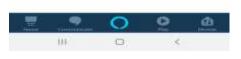| Test Case Id	Test Scenario	Test Data	Excepted Result	Actual Result	Pass/Fail
T1	To check whether user successfully connected in network	User should successfully connected in network	User has successfully connected in network	As Expected	Pass
T2	Check User Message	User should receive the message	user has receive the message	As Expected	Pass
T3	Notification to user on display	System should able to give notification to user on display	System is giving notification to user on display	As Expected	Pass
T4	Question and answers	System should allow user to asked question	System is communicating	As Expected	Pass
T5	System performance	System should perform as per requirements	System able perform as per requirements	As Expected	Pass

To conclude, College Enquiry Chatbot is helpful in guiding students with correct and most up to date sources of information. It is advantageous for international applicants for queries such as fee payment and academic matters. Students can get the information at their fingertips rather than visiting college office. It improves efficiency by taking over tasks for which humans are not essential. Sentiment analysis implemented in College Enquiry Chatbot correctly recognizes the user's query such as positive, negative, and neutral by storing all the conversations in the database.

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[4] S. Dey et al., "Speech biometric based attendance system," 2014 Twentieth National Conference on Communications (NCC), Kanpur, 2014, pp. 1-6

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5. CONCLUSION

In school campus or college campus or any orgnization, visitors faces numerous issue as we have referenced earlier. so, we accept this is give most ideal approach to discover an answer for our grounds guest questions and useful for obscure guests to discover the data about school grounds, college grounds or any organization area .In this application additionally use for the school, college grounds related data effectively find.

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