

AWS Virtual Assistant

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ABSTRACT

Voice assistants are software agents. The voice assistants can interpret human voice or speech and it can respond to synthesized voices. Voice control is a major feature that can change the way of people can live. The voice assistant is used in smart phones and laptops. The AI based assistants are the operating system that can recognize voice and responding integrated voice. The voice assistants will gather the audio from microphone and it will be converted into the text. Here the voice assistant understands the command and reply the text message and voice message to human and it will be connected to the web-browser to browse the given command output to display. The GTTS it will convert text into audio file in English language, then the audio is played by using play sound package of python programming language.

Keywords: Voice assistant, Audio, Voice-recognition, web-browser

1. INTRODUCTION

For voice assistants may be a service started by human beings, the voice control might be terribly recognizing the voice control to the voice assistants. The users can ask their assistants questions and devices, media playback via voice and they manage their basic tasks such as g-mail account, calendars with verbal commands. It will also basic and common features of today's voice assistants. It also providing the privacy and security. As voice assistants are become more widely used to deliver the library services and materials. Voice control is major growing feature. The voice assistants will gather the audio voice as input the human beings from the microphone and it will be converted into text and it will send the output google text to speech. The voice recognition technology is evolving rapidly to expected to become default input from for smartphone presently the modern voice recognition technology has been very useful to users as it provides uses with various app and resources from the anywhere in the world. And most systems are allowing the user to train the software to understand their voice and it can translate speech to text more precisely. And speech recognition is a keyboard typing it is easily understanding your talking to the machine and your voice or your talking words shown on the screen. Voice assistant are widely used to developed to consumption of time. The voice assistant assists the command to the system and it is giving to the message replay as text and it will directly be connecting to the web-browser or AWS.

- It is very useful for time consumption.
- It provides more privacy and security.

2. LITERATURE REVIEW

[1] In this paper explains about the design and implementation of a digital assistance and built using open-source software modules. And this nature of this project makes more flexible and adding additional features of without disturbing current system functionalities. It is works on human commands and also give responses to the user based of query being asked.

[2] In this paper provides overview of voice-recognition and contextual understanding between users and human interaction. And it frequently asks the questions to the voice assistant it will be answering all the queries. And all the assistants responded these questions and answered more accurately.

[3] In this paper overview of the various PARI design technology it provides especially for blind persons and works on their voice command. The PARI also providing more capability of recognizing the voice commands without using internet connection. And it also provides more functionalities for mobile devices like network connection and managing their various application on the voice commands.

[4] In this paper the author proposed the solving the problem of voice-recognition technology and he will conclude the future there will be center the attraction on implementation of application which provides a greater number of language options also the application is useful for physically disabled and every common user.

[5] In this paper provides overview of personal assistant and natural language interaction to the user device and the co-ordination range of job assistants. The architecture explains about the communication between the agents and the agent-based approach. The agent approach provides a high degree of modularity and domain independent aspects.

[6] In this paper the author explains about usage of digital voice assistants that will be helpful for academicians and from the corporate world. It also helpful for customers to prepare a better future for conversational engagements and it will enhance the knowledge of revisit their marketing strategies.

3. PROBLEM STATEMENT

I the problem of virtual assistants and voice assistant application such as Siri, Bixby, ok google and mobile device user’s daily routines that much easier. But you may be asking yourself how these functions it is difficult manage. In AWS while creating ec2 instance and any other operations it takes more time many steps to create. To overcome this many following stages.

4. FLOW CHART

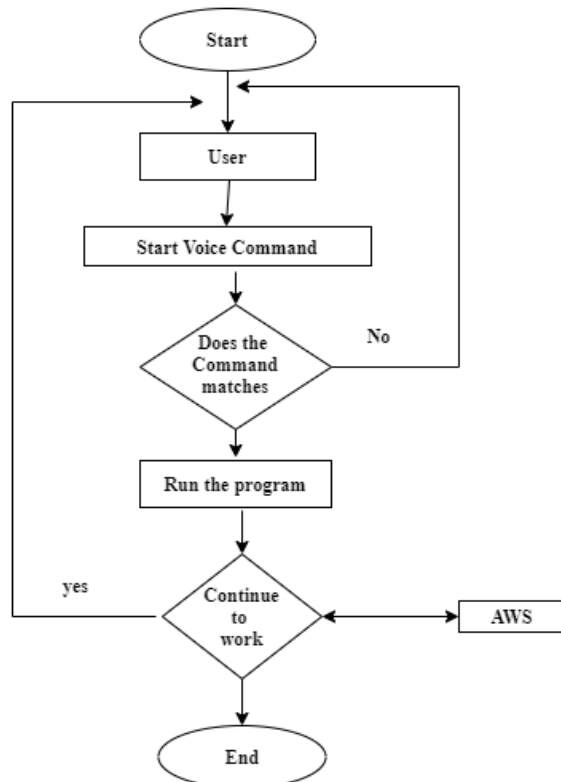


Fig1. Work AWS virtual assistant

In this flowchart we can see the it starts by user and user send the voice command to the voice assistant through audio and it identify the given command. If commands are matches it send the message to run the given program and it display the output. If command is does not matches it send the message to the user.

5. DESIGN

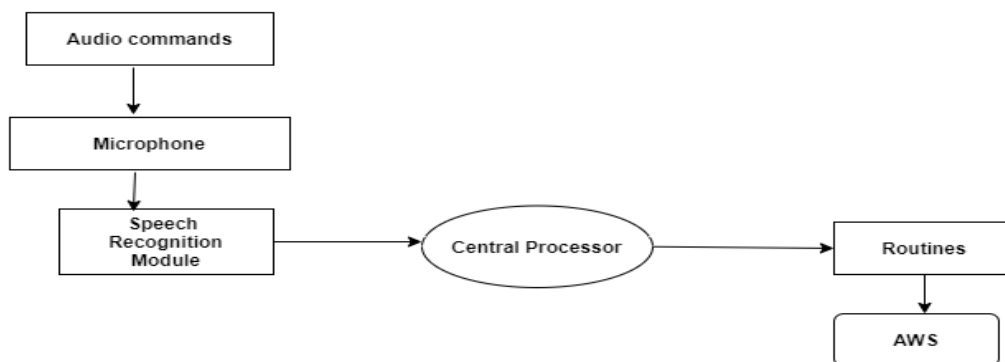


Fig2. AWS virtual assistant design

In this architecture the user given the command to voice assistant through audio the assistant recognize the voice and it display messages as output and later it will trigger to API the API trigger the given command it analyze and directly connect to the AWS console and it automatically create the ec2 instances without creating any steps.

6. ARCHITECTURE

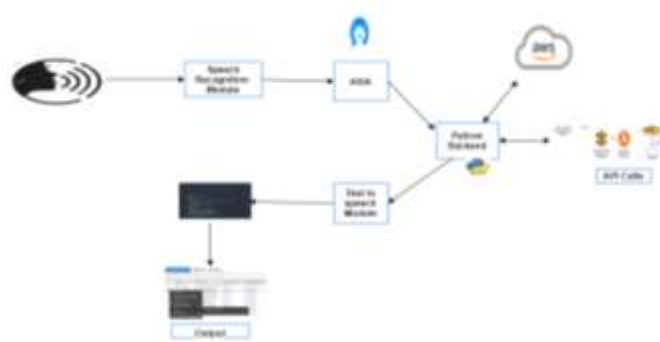


Fig 3. System Module of AWS virtual assistant

7. RESULT AND CONCLUSION

The main objective of the project is to develop the analyzes the real-world of voice control devices and it uses the natural language processing to process the language spoken by the human and it understand the audio and process audio query to respond to the human with the result. It is designed to minimize the human command or efforts and it will control the device with the just of human voice.

The device can also be designed to interact with the other intelligent voice-controlled devices and it automatically create the sum of AWS (LAMDA) functions and it will be automatically by sending audio messages. It providing more privacy and security, accuracy of voice assistant devices.

8. REFERENCES

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