

“Speaktoit”- Voice over Assistant Triadon

Priyanshu Kumar Pandey
B. Tech

Computing Science and Engineering
Faridabad, Haryana

Md. Akhtar Mansuri
B. Tech

Computing Science and Engineering
Deoria, Uttar Pradesh

Akarsh
B. Tech

Computing Science and Engineering
Ghaziabad, Uttar Pradesh

Abstract:- Voice assistants are software programs that synchronizes human speech and responds to that command. Voice assistants are boon for our generation as it has been made to make us ease at work, we can now just order the assistants and get the desired result.

Users can make their assistant do a variety of jobs, like media playback, google, Wikipedia, and many other to-do lists, by their verbal command.

The use of voice assistants is increasing heavily in every sector. Every company, every developer is introducing their own version of Vas. Like google has its own assistant “google home” Amazon has “Alexa” Apple has “Siri” etc. “TRIADON” voice assistant is one like them but more secure as the privacy issues which has been a big concern past few years. Some potential has been added for the security purpose. The most well utilization of Triadon is its security and ease at using an its connectivity with other devices through Bluetooth.

Keywords:- Human Computer Interaction; Virtual Personal Assistant; Smart Devices; Speech Recognition; Voice Assistants.

I. INTRODUCTION

This project is based on virtual application development which provides a personal assistance using voice recognition or by text mode operations. This software includes the functions and services of: call features, texting anyone, voicemail, sending or receiving mail, alarm, event handler, location services, music player, checking weather forecast, Google, youtube, Wikipedia, Robo chat, camera, translator.

As it performs almost every part of the mobile phone for daily use, it could be a lot useful for getting us a more convenient and easy life and it will be more helpful for people having disabilities for muscular actions. This is also one of the reasons why it has been chosen as the developmental project.

voice assistants are very useful for personal assistance, guidance while perform any activities like cooking, driving, advising and even helps among the differently abled community, and so on.

This software application uses a normal voice or language user interface to answer questions, give recommendations, and perform activities by delivering requests from a set of web services.

It shows that the hidden voice commands that are incomprehensible to people can control the VAs. A virtual assistant is a voice over assistant that performs on voice recognition method, using natural language, and speech synchronizing to provide an ease to users through phones and voice recognition applications.

II. LITERATURE REVIEW

An online ordering command method that uses the voice user interface in a group of objects. The set below is selected by sequence of items, each with at least one purchase item associated with the item type and has the same value. A collection of items is stored in the memory of the laptop. Item incorporates text content that is transformed into a word output. They thought that one day computers would be able to recognize the natural language and depend on what we need, when and where, and take full advantage of the obligations we have. However, speech recognition and technology have endured refinement, and package-based records with content providers have been created. We agree with that as computer programs become smaller and more ubiquitous clothing and the Internet for Objects (IoT).

The display is designed to switch verbal communication from one person to another data format. The hand that works with each partner is shown including the one who remembers the name and processor of a particular language. This data snippet can be a date plan, data in a personal logbook or data from each address book, such as a phone number.

The most popular use of the iPhone is "SIRI" which enables the end client to provide end clients in many ways with a voice-response client. It's called Personal Assistant with Voice Recognition Intelligence, which takes a client's contribution to write a name or content and then processes and returns the output to various locations as a task to be performed, or something mentioned in the file end of client. In addition, the proposed framework could change the way communications between the end client and mobile phones. We also show requests for field assistance and verification. This paper also suggests that there should be an integrated selection model in relation to quantitative measurement tests customer request and access.

Personal Assistant is a growing age of portable customer management. VPA is recognized as an advancement in good governance to address the growing need for portable professionals and staff. Great concerns have arisen in security, adaptability, endless details and precise understanding. Drawing on these findings speaks of great difficulties, including: the demonstration of disturbing ability; re-examination of the human condition; issues of trust and ownership information. Going through this challenge can take a lot on board for the IPA to use. As visible helpers approach it in order to become more intelligent and the IVA community of management and gadgets is growing, there is a growing need to understand the safety and security risks in this new and growing work.

A few recent events high risk to IVA. Better demonstration testing can open up such risks and motivate reliable frameworks. It enables purposeful clients to communicate with PC and web-based administrators with complete assistance with the use of web management tools and communication services. There are four common elements of the system; voice recognition module, traditional language translation module, chat agent and module extracting content. The current screen with computer programs that record each client is not eligible to access the Internet due to the basic help they provide with web content and lack of voice verification.

Most popular the use of the iPhone with "SIRI" enables the end client to transfer the final voice that corresponds to the customer and respond to the client's voice. It's called Personal Assistant with Voice Recognition Intelligence, which takes a client's contribution to write a name or content and then processes and returns the output to various formats as a task to be done or something directed to the end client. In addition, the proposed framework can change the way communication between the end client and the mobile phone. Open Data currently collects logical management frameworks, particularly in the field of government, biological science, and intelligent pride. However, to further its use beyond consumer management, the Open Data web browser will determine which type of data will be available for assistance. This paper presents a colleague who uses the term Open Data as a source of learning. Highlighting changes accurately with customer criticism, and obtaining unregistered information about customer support. We also show our application for field service and confirm its performance. The paper provides a sketch of VPA applications, with standard exposures and future patterns. This paper also proposes an integrated selection model by looking at a few estimates of the application value and customer availability. Personal Assistant (VPA) is a growing period of portable customer management. VPA is recognized as an advancement in good governance to address the growing need for portable professionals and staff. VPA controls, working with individual exercises via logbook.

III. PROBLEM FORMULATION

The first problem facing this project is the echo. We used Microsoft's speech recognition identifier, and became familiar with Google's speech identifier for better voice synchronization.

The real problem with Vas is that the user interface requires a lot of voice clarity, proper care while communication is more than a click, save, or hell telepathic, better synchronization and getting the results you want.

The flexibility of each voice assistant is different. Sometimes the user controls them as when reading emails or texts and includes a to-do list time. But when it comes to assistants during the study, whether they are asking to send words or repeat texts, there is much more back and forth about this process.

IV. REQUIRED TOOLS / MODULES

MODULES:

- ESCAPTURE
- WOLFRAMALPHA
- BEAUTIFULSOUP
- SNAGIT
- TKINTER
- HUBSTAFF
- DROPBOX
- TIME DOCTOR
- BUFFER
- BROWSER
- WIKIPEDIA

Software Requirements:

- Pycharm
- Visual studio code
- Pyttsx3 module
- SR recognizer
- Audio framework

Hardware requirements:

- Bluetooth
- Memory card
- MCU/CPU

Varies based on the desired experience. As a reference, the echo wall clock uses an ARM-CORTEX M4 family SOC clocked at 48mhz.

V. WORK PLAN LAYOUT

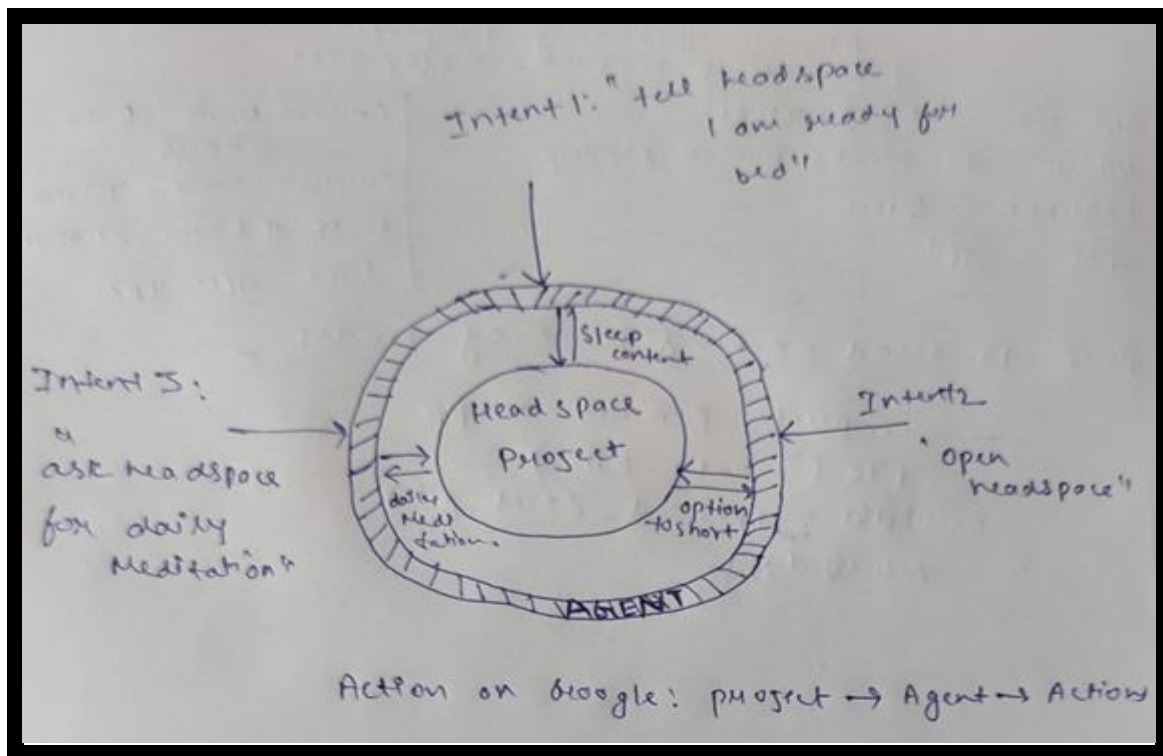


Fig 1:- Block diagram

VI. CONCLUSION

At the all we wanted to say through our project is that Voice assistants are need. They are helpful for us to do a variety of hand free jobs. Who doesn't like getting their job done on a single voice command. Voice Assistant provides ease of access. Having a personal assistant with access to unlimited information stored on the Internet is what we need.

ACKNOWLEDGEMENT

This project becomes a reality with the kind support and help of many individuals. I would like to extend my sincere thanks to all of them. Foremost, I am highly indebted to the faculties of Galgotias University for encouraging us to the highest peak and to provide me the opportunity to prepare the project. I am immensely obliged to my friends for their elevating inspiration and help in the completion of the project. I would like to extend my special gratitude and thanks to my guide MS. NIDHI GUPTA for imparting her knowledge and experience in this project and her kind supervision given to me throughout the course which shaped the present work as its show. My thanks and appreciations also go to my colleague and people who have willingly helped me out with their abilities.

Last but not the least, my parents are also an important inspiration for me. So with due regards, I express my gratitudes to them.

REFERENCES

- [1]. Sirbi, K. Patankar: Personal assistant with voice recognition intelligence: Int. J. Eng. Res. Technol. 10(1), 416–419 (2017); Mrs sirbi and Dr. patankar in their book mentioned about the growing legacy of voice assitants and virtual assistants.
- [2]. Kawamura, T., Ohsuga, A.: Flower voice: virtual assistant for open data
- [3]. Elshafei, M.: Virtual personal assistant (VPA) for mobile users. Mitel Networks (2000– 2002)
- [4]. Sarikaya, R.: The technology behind personal digital assistants. IEEE Signal Process. Mag. 34, 67–81 (2017)
- [5]. Purington, A., Taft, J.G., Sannon, S., Bazarova, N.N., Taylor, S.H.: Alexa is my new BFF: social roles, user satisfaction, and personification of the amazon echo.
- [6]. Lopez, G., Quesada, L., Guerrero, L.A.: Alexa vs Siri vs Cortana vs Google assistant: a comparison of speech-based natural user interfaces. Conference Paper, January 2018
- [7]. Kepuska, V., Bohouta, G.: Next generation of virtual personal assistants (Microsoft Cortana, Apple Siri, Amazon Alexa and Google Home).