

A.U.G.U.S.T (Any User Generates Undetermine Solution Task)

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A.U.G.U.S.T (ANY USER GENERATES **UNDETERMINE SOLUTION TASK)**

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Abstract - This paper represents the alternate version of some of the voice assistants like Google assistant by Google for android , Siri by iOS for Iphones , Cortana for Windows. In such a way the A.U.G.U.S.T is going to be one of the voice assistant for Android, iOS, Window as well as Linux. It was going to be one of the voice assistant which can bring direct solution in certain commands. One can easily use it by voice commands or by giving the commands by typing manually. It was going to provide the user friendly interference so that one can interact with it so that one find it in a way of entertainment to gets it's solution in a certain commands. It helps to allow you over all social media platforms such as Facebook, Watsapp, Instagram and many other platform. One can interact with the A.U.G.U.S.T assistant so easily.

two technologies: Synthesizer and recognizer.[1] A speech synthesizer takes as input and produces an audio stream as output. A speech recognizer on the other hand does opposite. It takes an audio stream as input and thus turns it into text transcription. In this mode the communication and result for the same commands after checking the commands takes place. In this way the voice assistant works in the simple way of manner to make it easy and comfortable for others user and as use it in the fun way of manner.

Index Terms - Virtual assistant, Voice recognizer. Task performer.

II. DISCOVERY OF VIRTUAL ASSISTANT

I. INTRODUCTION

The discovery of the virtual assistant was done in late 90s it was firstly known as speech recognition technology which do not carry out any task it just recognize the speech and give the output as the same command it does not carry out any special kind of tasks. In 2001 Colloquis publicly launched his text assistant named Smarter-Kid, on some of the platforms like AIM and MSN Messenger. While entirely text-based Smarter-Kid was able to play games, check the weather, look up facts, and converse with users to an extent.[2] After that in year 2008 the concept of voice assistant of introduced in a kind of frictional movie. After that Steve Jobs (CEO of apple) had taken interest on the topic of voice assistant in on 4th October 2011 the first particular voice assistant was introduced as a feature of iPhone 4S named SIRI.[2] SIRI is able to do the defined the given task. But it is not so good at the starting but when it starts to upgrade itself now it is much better than the normal versions. Then in 2014 Amazon has announced Alexa with reference to Echo.[3] And on 18th May 2016 the most useable voice assistant the Google assistant was introduced. It is that much developed that it can be installed in any Smartphone till date 2017.[4] In 2017 the Google assistant had done the fabulous work that Google voice assistant can be installed in simple mobile phones. So that every single person can able to operate mobile phones even if he is illiterate or the handicapped people are now able to operate mobile phones with the help of Google assistant. And again in year 2017 the

The voice assistant concept is so old that one can use his or her device with the help of voice commands only it brings the kind of level of excitement in every generation. In today's life many of the voice assistant are available in the market which are giving the good service of voice assistance in many field like one main is home automation where all the household appliances one can operate just by single voice commands. In today's world voice assistance plays the role like a personal assistance to everybody life. In this project A.U.G.U.S.T is Digital Life Assistant which uses mainly human communication means such as feature of calling, messaging, daily life communication to create two way connections between human and his assistance, controlling lights and appliances, assist in cooking, notify him of breaking news, Facebook's Notifications and many more are just done with the help of single voice command. In our project we mainly use voice as communication means so the AUGUST is basically the Speech recognition application. The voice is a signal of infinite information. We test this on 2 different kind of voices (1Female and 1 Male) for accuracy purpose. The concept of speech recognition technology really encompasses Amazon who had introduced Alexa had been launched it had bring many functions like Home automation, and different mini functions and in this stage many other mini voice assistants are developed that can make our life easy. [3]

III. UNITS

The A.U.G.U.S.T voice assistant is one of the voice assistant which was developed with the help of python language it can be installed in any system like Macbook, Linux, Windows, Android and many other operating system. The program was fully encoded with the help of python language with the help of different python modules and libraries. And it also had a GUI. It helps the virtual assistant to have a kind of look a kind of face that will help one to easily recognize it. It will also help one to do all the defined task and many more things that are in-build in voice assistant. It can be used in many functionality which will help us to make the complicated into simple. The voice assistant are updating dayby-day in today's world but they are not giving the proper result which sometimes make hard to understand the solution but it will help one in giving the direct solution so that one can never be misguided. The python helps the virtual assistant to make it design in the simple way of manner that will perform the task of the command so efficiently.

IV. WORKING OF VIRTUAL ASSISTANT

The working of the project A.U.G.U.S.T is in the simple way of manner. Firstly, the input is given from the terminal by the means of voice command. After that the Recognizer recognizes the command what the command was given and the received recognized command was then send towards the synthesizer. Figure 1. Shows working model of presented work.

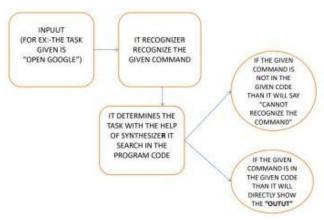


Fig. 1 Working flow of AUGUST.

The synthesizer then synthesize means it will search for the given command in whole code, if the given command was in the given program it will perform the given task and if the command that was given is not present in the program then the synthesizer will send the error of that the given type of command is not found in the source so you have to give the

proper command that is present inside the source code. So in the simple way of format it will work. For example:- The user will give the command that Hey A.U.G.U.S.T open Google chrome. Then the recognizer recognizes the given command and send it towards the synthesizer. The synthesizer then synthesize the given command and search it in the whole program. The command is present so it will open the chrome and ask "Sir, what should I search on Google chrome" then the particular task will be given likewise "Search the C.E.O of Google". The given task is then performed if the task that is given but not present in the program code or if the solution of the task is not given in the particular program it will send the error which says "Sir , I cannot find the solution for the particular task SORRY". In this way the program or the virtual assistant works.

VI. LIMITATION

While voice assistants have several advantages, there are also some potential disadvantages to consider:

- 1. Privacy concerns:-Voice assistants are always listening, which means they can potentially capture sensitive information. There have been concerns about whether voice assistant companies may be collecting and storing user data.
- 2. Misunderstandings: Voice assistants may misinterpret commands, leading to frustrating experiences. They may also struggle to understand different accents or languages.
- 3. Dependence: Over-reliance on voice assistants can lead to a loss of independence, as users may struggle to complete tasks without them.
- 4. Connectivity issues: Voice assistants rely on an internet connection, which means they may not work correctly if the internet connection is slow or non-existent.

VII. APPLICATION

Voice assistants can be applied in a variety of contexts, including:

- 1. Personal assistants: Voice assistants such as A.U.G.U.S.T Assistant can help individuals manage their daily tasks and routines, such as setting reminders, making appointments, checking the weather, or playing music.
- 2. Smart home devices: Voice assistants can be integrated with smart home devices such as thermostats, lights, and security systems to provide hands-free control.
- 3. Customer service: Companies are increasingly using voice assistants to improve customer service. For example, customers can use voice assistants to place orders, track shipments, or get answers to frequently asked questions.
- 4. Healthcare: Voice assistants can be used in healthcare to help patients manage their health, schedule appointments, and communicate with healthcare providers.
- 5. Education: Voice assistants can be used in education to provide personalized learning experiences, such as creating custom quizzes or providing real-time feedback on student progress.

6. Automotive industry: Voice assistants can be used in cars to help drivers access information, make phone calls, send messages, and control various features without taking their eyes off the road.

VII. CONCLUSION

A.U.G.U.S.T is a digital and virtual assistant with artificial intelligence. It is very useful and flexible technology. It provides a better interface to deal with. It reduces the human efforts. It helps to make technology better in terms of not using keyboard for input as speech recognition is available. As it will became next step towards the technology.

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- [3] https://en.wikipedia.org/wiki/Amazon_Alexa
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