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# Android Application to get Answer through Voice

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Abstract: The mobile phone users are increasing day by day and everyone wants to develop new things which are improved version of existing one. The user might want the faster technology which can give the answer by giving input in the form of voice and getting output in the form of voice. This project deals with the easy to use and time saving feature and providing the easy search facility.

In this technology, there will be voice-to-text and text-to-voice interaction between the user and the server. Here first voice is converted into text and this text is searched in the database residing in application itself and extracts its answer, then this answer will be converted into voice. If answer is not found in database then it will sent over Google to extract its answer and gets converted into voice. Finally the client will be getting the answer in the form of a voice for the searched result.

Keywords: Speech-to-text conversion (STT), Text-to-speech conversion (TTS)

# I. INTRODUCTION

People love their mobile phones because they can actually B. Searching mechanism stay in touch wherever they are. That means not just for After converting speech into text the searching mechanism talking, but e-mailing, texting, and so on. We are is performed which include searching of that answer in the constructing with the growth of mobile phone technology. database residing in application itself and extracting its As per the users are increase day by day, facilities are also meaning. increasing. Let's start with simple regular handsets which were used just for making phone calls, mobiles have C. Connecting to Google via internet changed our lives and have become part of it. Now a day's If the desired text does not match with any answer in mobile phones are not use for making calls but they have innumerable uses and can be used as a Camera, Music through internet. player, Tablet PC, T.V. ,Web browser etc. And with the new technologies, new software and operating systems are D. Text to speech conversion required. In recent years, smart phones have placed an If the answer is found then it will be converted into voice increasing emphasis on bringing speech technologies into as an output of our application. mainstream usage. This focus has led to products such as Speech server, which is used to implement speech-enabled telephony systems. Now let's limit our focus towards applications of android mobile phones. Finding answer on to perform searching task in the huge database thus Google is the most widely used application in the world, with 2.4 billion active users. But instead of searching the answer by typing, we just give input in the form of voice by just speaking the question of which we required answer and also getting its answer in form of voice itself Briefly we can summaries the drawback as: minimizing the work.

# **II. AIM AND OBJECTIVE**

The main goal of our project is to develop android application for getting Answer by giving input as well as getting output in the form of voice.

### **Objective** includes

### A. Speech to text conversion

This will include the conversion of speech into text by matching appropriate peach and frequencies, which is done by servers holding large database regarding possible User gives input in the form of voice, this voice is different peach and frequencies of a person's voice. This converted into text and this text is searched in the databse server is already built by Google

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database then it will search that answer over Google

### **III. EXISTING SYSTEM**

Whenever we want to get answer of any question we need wasting lot of time. This process involves considerable wastage of time as it is not always possible to type question or not to read its answer. The process requires human interaction at each state and takes a lot of time.

### A. Manually typing of question

In the existing system, whenever you want to find the answer from mobile phone you need to type whole question manually.

### B. Time Consuming

As each and every time we need to type whole question, search accordingly and also need to read its answer thus wasting lot of time.

### **IV. PROBLEM STATEMENT**

residing in application itself and extracts its answer, then



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this answer will be converted into voice. If answer is not the speech into text globally that is for any user it is very found in mobile-database then it will be sent over Google difficult job because the frequency of giving input of any to extract its answer and gets converted into voice. Finally the client will be getting a answer in the form of a voice global hence we are creating it for the mobile user means for the searched result.

# **V. IMPLEMENTATION**

Here we are using eclipse for writing android source code for designing interface and creating various processes included in application. We begin with the conversion of the voice into text, this is performed by matching the person's voice peach and frequency then finding the appropriate question, this task is performed by Google servers having huge database regarding different peach and frequencies then the resultant text is searched in the database through searching technique and if the question is found its corresponding answer is extracted and given as input to the another process where this text is converted into voice, the text to voice conversion takes place on input file and the output is collected in the text file. internally and we are getting output as voice saying the answer of the question which we have spoken as input. If B. SEARCHING MECHANISM the answer is not found in the database then it is sent over The system includes three searching mechanisms are as the Google to search the answer, the first paragraph after listed below: that word is extracted and stored in the temporary storage *i*. space and also given for further processing where it speech into the text the searching mechanism search the actually gets converted into voice as final output. For answer in the database residing in mobile itself and extract storing the answer and creating temporary storage space the answer of the question. If the answer of question is not the database is required. For this purpose we are using found in the database then it searches in the temporary SQlite database which is very simple and suitable mini database system. Separate space as temporary storage has *ii*. to be made to store the question and its answer which is searches the answer of question in the temporary storage not found in the database but searched over the Google, this question along with its answer is stored in the mechanism stores the answer for a particular slot of time. temporary storage for quick accessing of questions answer instead of again searching it over the Google[1]. The flow diagram of the whole system shows in the Fig.1

# **VI .FUNCTIONAL FLOW**

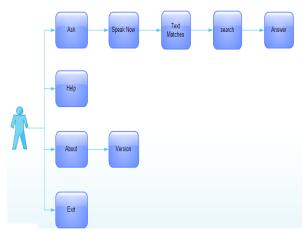


Fig.1.Flow of proposed application

# VII. UNITS

#### A. speech-to-text conversion

The main requirement of every speech to text conversion system is a database which will compare peach with frequencies. If we develop the system which will convert

user is different as that of other user. If the system is our job is very much difficult there are millions and billions mobile users and sound frequency and peach comparison is again difficult. Hence we need to use database which is already provided by "Google". If we try to create the database manually it will create time and space problem. To create such a huge database lot of time will west and this project is for mobile users whose internal memory of mobile is generally low and the database for this is system is very much huge. Instead of creating a database for this system we need to use existing database which is available at the web server. The speech input is collected in the container and the send it to the peach and frequency comparison there cognition take place. To get correct text which is spoken we need training

Searching in database- After converting the storage.

Searching in temporary storage- In this it and extracts the answer of the question. This searching If the answer is not found in the temporary storage then it will be searched over Google.

Searching over Google- Google search the iii. answer of the question and extract the answer of it. This extracted answer is stored in temporary Storage for some period of time.

# C. TEXT-TO-SPEECH

Text to speech synthesis is converting the text to the synthetic speech that is as close to real speech as possible according to the pronunciation norms of special language. Such systems are called text to speech (TTS) systems. Input element of TTS system is a text, output element is synthetic speech. where the actual conversion is done by storing some rules regarding text analyzing like saving pronunciation of each alphabets with some exceptions, taking pause whenever space is been encountered while actual converting text into speech and so on.

# VIII. DETAILS OF SOFTWARE AND HARDWARE.

A. Software Requirements

Operating System:-Android operating system. В. Hardware Requirements

- Mobile phone with specification.
  - Android operating system (version 2.3).
  - 650 MHz processor.
  - 512 MB RAM.



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# IX. CONCLUSION

This paper will demonstrate the plan and implementation of building an application which will give answer in the form of voice having user friendly interface and useful in day to day life for many users for finding the answer of the question. This will also overcome on various disadvantages found in existing system thus making it more efficient and reliable.

# REFERENCES

- 1. www.google.com
- 2. www.wikipedia.com
- 3. "Android Application Development All in one for Dummies" by Barry Burd
- 4. "Mobile Apps Development" by Anubhav Pradhan, Anil V Deshpande
- 5. "Embedded Android-Porting, Extending, and Customizing" by Karim Yaghmour
- 6. (O'Reilly Media)
- 7. Android Developer Resources: http://developer.android.com
- 8. Android Developer Tools Essentials by Mike Wolfson (O'Reilly Media).