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TAPTAP SEARCH: AN INTELLIGENT CLOUD BASED SYSTEM FOR VISUALLY IMPAIRED

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ABSTRACT

An The visually-impaired population of people the inability to read has really huge impact on their life. Now Over the year speech recognition has taken level high.

The speech input can be used in varying system such as automatic reader and for input data to the varies system. Speech recognition can minimize the use of text and other

types of input, at the same time minimizing the calculation needed for the process. A decade back speech recognition was difficult to use in any system, but with growth in technology leading to new algorithms, techniques and advanced tools. Now in this system it is possible to generate the desired speech recognition output. Voice or signaled input is inserted through any speech device, speech can be processed and convert it to

text hence able to send SMS, also mobile no. can be entering either by voice or you may select it from contact. Voice has opened up data input for a variety of users such as illiterate, handicapped, as if person cannot write or read data the person can get the required answer to question by better usage of this application.

1.INTRODUCTION

For the visually-impaired population, the inability to read has a great negative impaction their life. books, magazines, menus, labels, etc. it represents of the information this people should able to access to it. Hence, developing system by which text can be retrieved and read out loud to the blind is difficult. In this work, we discuss the design and implementation of two different platforms, in one, we combine todays. Smartphone capabilities with the advantages offered by the rapidly growing cloud. Our system makes use of local resources for the Text-to-Speech conversion.

1.1 RECONCILED ESTIMATES

The first process model introduced was Waterfall Model. It is also known to as a linear sequential life cycle model. This model is very simple to understand and use. In waterfall model, each phase has to be completed before next phase starts. This type of model is basically used for the for the project which is small and there are no uncertain requirements. At the end of each phase, a review takes place to check if the project is on the right path and whether or not to continue or discard the project. In this model the testing starts only after the Development is complete. In waterfall model phases do not overlap.

1.2 TIME ESTIMATE:

Costs of the getting knowledge is depends on the resources and efforts needed for the development of the system.

2. PURPOSE AND SCOPE OF DOCUMENT

- The tap tap system using mobile device is the cloud with android application and it will be also be deployed as a smart phone application.
- The purpose this application is to help the visually impaired to get daily activities done.

- This software application provides various functions such as accessing mails, twitters, location, news, calls, SMS ,etc .
- It maintains information in created and also fetches the information in the required order using SQLite.
- By using this application the visually impaired people would be able to access daily activities.

2.1. PROBLEM STATEMENT

- Tap Tap Search for visually impaired using cloud-based system.
- Through a single tap we can help visually impaired people. Any form of input given by user can be converted into required form.
- The real time news and updates can be retrieved by user.
- The primary modules of an android mobile can be used through a user's voice.

2.2. GOALS AND OBJECTIVES

- The main goal of our system is to design and implement a android device which can convert text to speech and speech to text which will be helpful for visually impaired.
- In this system input may be any form we get the output in required form.
- The main goal is to help the blind people through android device.
- To get the real-time and required information by single tap tap on mobile device.

3. CONCLUSIONS

- This study has proposed android system that improves performance by visually impaired people and minimizes the costs of hardware which required to handle speech. (Tap Tap)
- Search work when the user touches the mobile screen and then application get started.
- We can use the mobile only sending voice commands through speech. In the system the Text-to-Speech and Speech-to-Text conversion is done. This project controls various application use in our daily life like as SMS, Gmail, Call, Book reader, News, etc.
- more. Also, we are provided the backend services call and SMS system when any call or msg is incoming.
- In its current version of the software we have included basic functionalities application.

Acknowledgement (Optional)

It gives us great pleasure in presenting the preliminary project report on 'Tap Tap Search.

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