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Alert System To Blind People On Android Using FFT And RFT Algorithms

Bhuvaneshwari P

PG Student,
Department of Computer Applications,
Anna University, Trichy

Dr. P. Senthil Pandian

Teaching Fellow,
Department of Computer Applications,
Anna University, Trichy

Abstract: ***Applications for blind people and human-centered computing can be implemented in various environments. If develop the reliable heart rate monitoring system, so that the healthcare professionals either hospitalized or executing their normal daily life's. New Wearable technologies are capable of measuring the heart beat and, further, using other sensors like Accelerometer and Gyroscope, embedded on a simple clock allow us to monitor the physical activity of the user. In main goal is to use the heart rate monitoring measurements in conjunction with the impaired person can be used. And developed on blind peoples navigations. Based on device location sharing the human interface technology make possible the production of affordable. In addition the proposed system is able to send alert the message and about the patient's critical health data (ratio) by get the text messages reports. In this project have find any problem to activate privacy SMS intimations for consume persons.***

Keywords: Smart watch, Mobile device, Heart rate, Wearable, Navigation.

I. INTRODUCTION

Vision is a beautiful gift to human beings by GOD. Vision allows people to perceive and understand the surrounding world. Till date blind people struggle a lot to live their miserable life. In the presented work, a simple, cheap, friendly user, virtual eye is designed and implemented to improve the mobility of both blind and visually impaired peoples.

Health is one of the global challenges for humanity. According to the constitutions of World Health Organization (WHO) the highest attainable standard of health is a fundamental right for an Individual. Many people suffer from serious visual impairments preventing them from travelling independently. Accordingly, they need to use a wide range of tools and techniques to help them in their mobility.

The system is provide with an emergency button which will trigger an SMS that will send the present location of the user (GPS coordinates) phone number asking for help, in case emergency. This project will help the blind people in improving their communication ability to safe and secure the authentication.

II. PROBLEM DEFINITION

OCR techniques are have been widely used for many classification and modeling problems. Medial prefrontal cortex (MPFC) approach to extract special feature points from captured images. TTS (Text-to-speech) algorithm used for voice which made audible. FFT raw audio signal is convert algorithm. Signal from time domain to frequencies domain.

ISSUES

- ✓ Existing approaches do not explore the fact that independent impaired person expression data.
- ✓ The existing system assumes
- ✓ Frontal or near-frontal does't view environment.
- ✓ Manually detected key points from activity.

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✓ Difficult to analyze presence of a neutral interface.

III. PROPOSED SYSTEM

Proposed system implement by the automated approach for recognition for blind people easy to use Smartphone. If desire to measure and heart rate monitoring importance of physiological data of a parent or consume person in order to send alert message. Implement Support smart watch devices classification to classify normal and critical data set. Unlike any other physically challenged people the blind and visually impaired people are the people facing lots of difficulties in their daily life. In addition the proposed system is able to get the text message. And navigate the current location share the exact environment. So many methods have been followed and proposed by many scientists across the globe

IV. ARCHITECTURE

PROPSED SYSTEM ARCHITECTURE

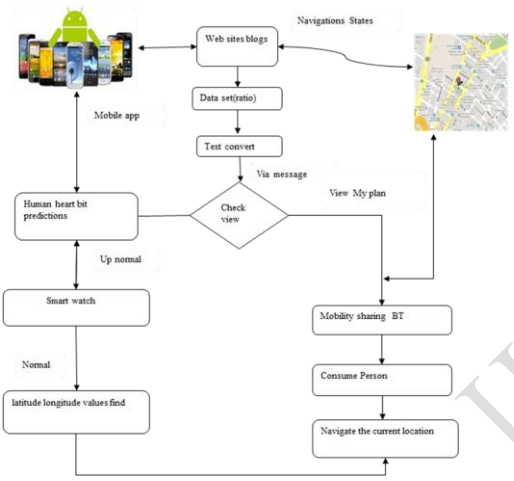

Figure 1

V. MODULE DESCRIPTION USER MODULE

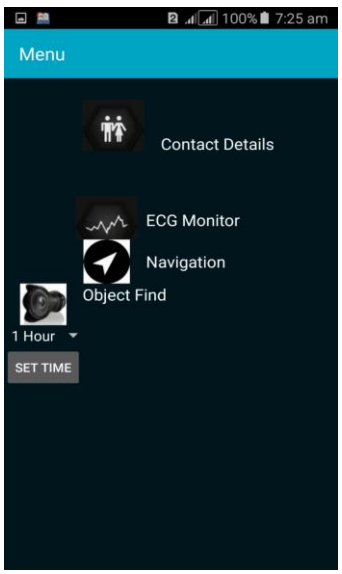

Figure 2

CONTACT DETAILS

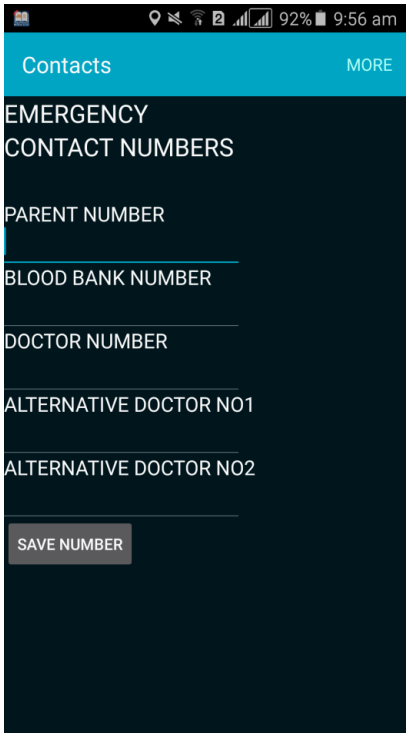

Figure 3

Add the user details person authentication services. Focus on requests be viewed to different filters based on patterns. Consuming application we would use the Security Context Holder. Being a representation of something from your own user database.

ADD THE CONTACT

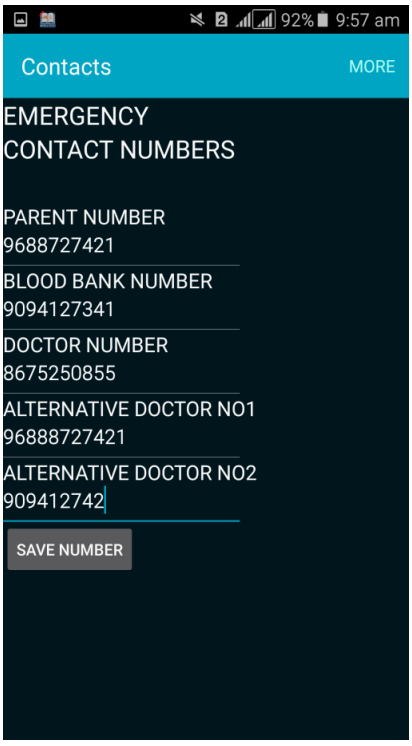

Figure 4

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SENCING THE HEART RATE

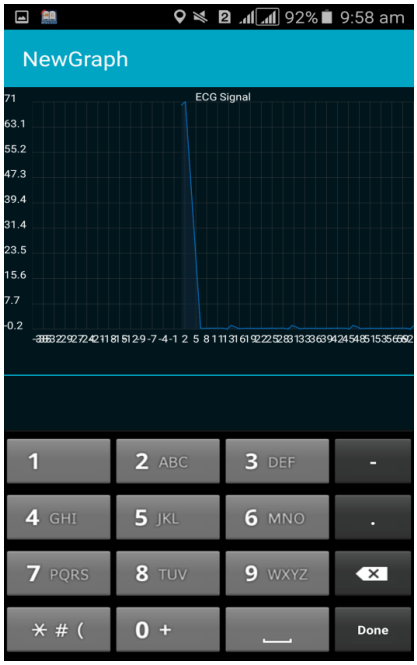

Figure 5

Checking your pulse allows you to determine your heart rate with any special equipment Instant Heart Rate is the most accurate Heart Rate Monitor app for any smart phone and need any external hardware device. Use it for optimizing and to track progress. Install it now and keep the smart phone.

NAVIGATION

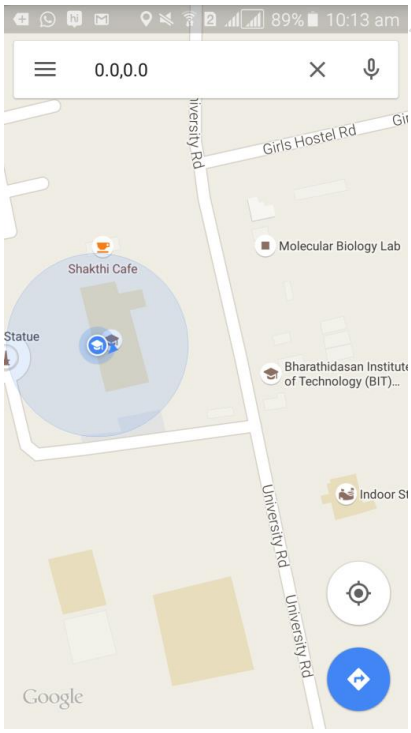

Figure 5

Navigation systems for blind people can provide dynamic interactions and adaptability to changes. Communication interface to guide blind users and help them travel in familiar and unfamiliar environments independently and safely.

VI. CONCLUSION

In this project, we reported on blind users' interactions with a smart phone application that enables blind and normal people and we can use this application develop by the blind user communication between via the smart phone device. They are using smart phone able to any changes the heartbeat high radio send the consume person to get the text message. And get navigation to exact share current location.

This paper has analyzed two existing applications for visually challenged people and proposed a design for better application that can help blind users to carry out their routine tasks smoothly with the help of improved applications.

VII. FUTURE WORK

Future work will be focused on enhancing the performance of the system and reducing the load on the user by adding the camera to guide the blind exactly. Images acquired by using web camera and NI-smart cameras helps in identification of objects as well as scan the entire instances for the presence of number of objects in the path of the blind person. It can also detect the material and shape of the object. Matching percentage has to be nearly all the time correct as there no chance for correction for a blind person if it is to be trusted and reliable one. The principles of mono pulse radar can be utilized for determining long range target objects.

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