ANDROID BASED APPLICATION FOR SENIOR CITIZENS

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ABSTRACT

To raise the imperativeness and toughen the fitness of elders, as a way to offer an interactive carrier control platform to the elders a robust surroundings of numerous sensors are clubbed collectively to set up an intuitive platform. Senior citizens face trouble and problems at the same time as taking walks as boundaries are available in the front of them which can be tough for them due to blurriness of their eyes.

Keywords:-Sensors, Android Smartphone

1. INTRODUCTION

As the age of human beings increase, maximum them lose their eye sight , they face many troubles of their day by day recurring to walk and navigate in unusual locations. One such instance is the character with low visibility of their eye can't perform mobiles within side the emergency conditions, then they want assist from others inclusive of caretaker. To face those diverse troubles with the aid of using low sight with the aid of using antique elderly human beings right here give you an answer which allows them to stroll/navigate freely and satisfy their necessities the usage of speech popularity and intimate to the character or care taker with the aid of using text message with the area(location) in which the affected person is, and calling to exact persons. This tool additionally allows in tracking the , body temperature, smoke detection and intimation. another brought function is sensing the dimness/darkish and generating the light/torch routinely through a smart phone.

2. OBJECTIVE

- The senior citizens would be able to find help from this application of detecting various problems in the environment.
- This application is created using an IDE android studio which generates speech output as well in prior
- People who are have to skin related problems due to excess of temperature in the surrounding this app could place a vital role as it provides a speech saying so that its high temp and are not suppose to expose themselves with high temperature(ie if exceeds temp>40 degree)
- This application is created and stored in the Android based Smartphone, generates speech output depending upon the incoming messages transmitted via Bluetooth.
- Depending on the detection of smoke the particular inputs of the microcontroller are triggered by the comparator.

3. LITERATURE SURVEY

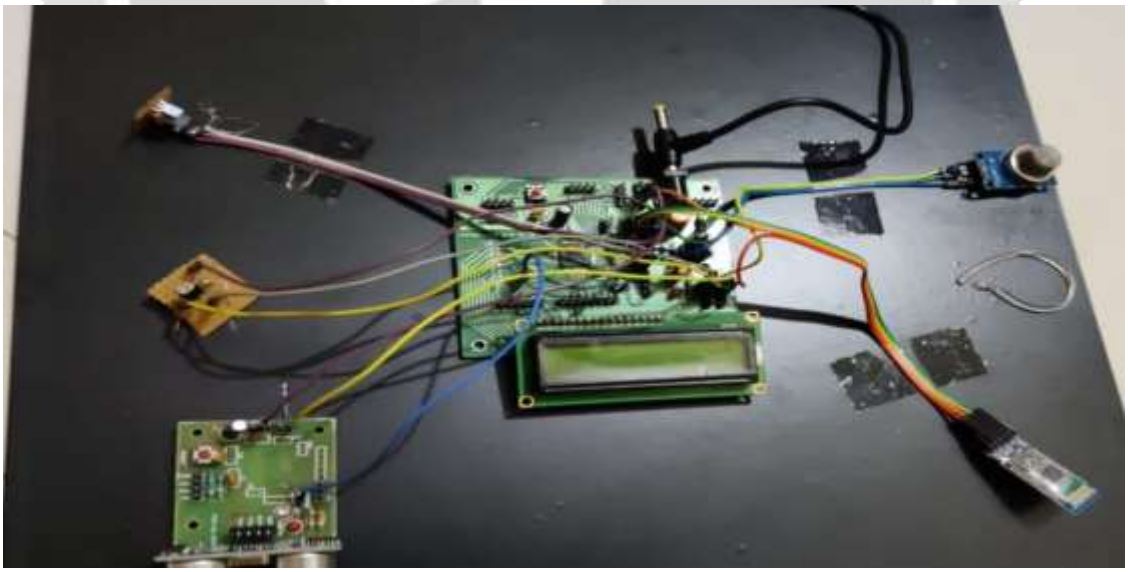
An efficient healthcare system is a requirement for both developed countries, where the cost of healthcare is high and security and privacy are critical issues and developing countries like India, where there is a mass population to be taken care, an efficient,reliable,robust and secure health for example, secure identifiers can help a private to scale back errors. With the recent development in mobile devices involving secure credential storage, larger storage capacity, wireless communication interfaces and computational power, they can be used in healthcare for not only gathering health parameters of a patient but also assist them to take pre-advance measures for an efficient treatment. Technology employed as a part of healthcare can also determine location of the patient in case of emergency through location service (GPS) on recent mobile devices.The main contribution of this paper is, proposal of a strong secure healthcare architecture using Android based mobile device with Bluetooth interface.

4.EXISTING SYSTEM

In the Existing System, there should be some Care Taker along with the Patient who personally monitors the age old patients. Also if their conditions are abnormal, then they will suffer a lot. That also causes more problems. Also in this system the patient will not gain any confidence rather the presence of the care taker will remind them they are still sick. The psychologist says this have to be avoided to make the patient to recover from illness. Doctors say that the medicine will heal only half of the illness and the confidence only will heal them completely.

5. WORKING

Lcd is mainly used for testing purpose of sensors.For transferring data here bluetooth module HC05
is used Only for demo purpose android smart phone is used for obtaining For demo,to test smoke sensor we are using agarbatti or perfume.



6. METHODOLOGY

In the embedded part, the sensors detect any problems in the environment and sends the alert to the android app with the help of Bluetooth for example we have a smoke sensor which detects the smoke in the surrounding and sends a alert message to the android app.
In the android part ,the alert message is conveyed to the patient or the senior citizens through voice output.

1.Login page: The user can login from their credentials.
2.Home page: Bluetooth connectivity, the patient can send an alert message if there is any emergency to their family which in turn also send the location.

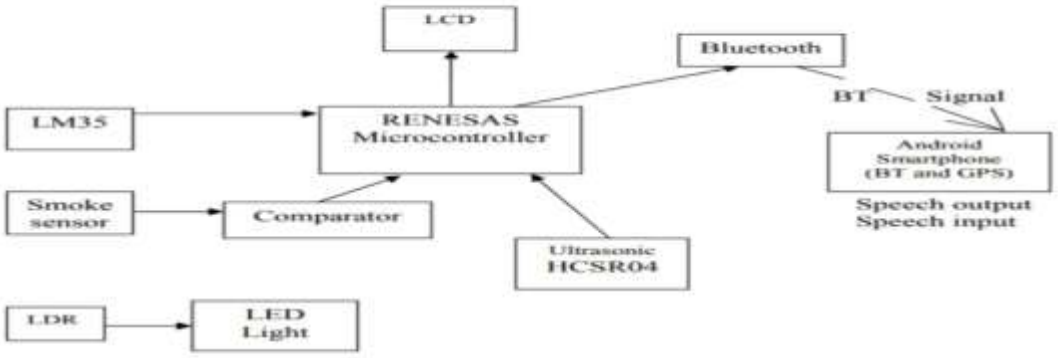


Fig: Block diagram

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7. CONCLUSIONS

- It helps to aged peoples who is suffering from blurriness of eyes and finding difficulties while walking/navigate
- Regular updates on environmental conditions such as provide details on smoke if present, temperature if high
- On detecting certain inputs in the microcontroller are triggered by the comparator and if it crosses the voltage level senior citizen is alerted in advance
- This application can play a vital role in senior citizens life as it alerts everything well in advance through a output speech via smart phone accordingly they can take actions.

8. ACKNOWLEDGEMENT

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