GPS Based Automatic Women Sequiery And Health Monitoring System Using Iot

[1]R.Belageya Neelowna , [2]Mr. S.Kanithan (M.E(Ph.D))
[1]PG Scolar , [2]AP/ECE , AVS college of Technology

ABSTRACT

This project smart phone which will be useful in women security which would be controlled from anywhere else. It is also highly economic and less expensive; hence GPRS is preferred most for this mode of controlling. In this application we are maintaining the heart beat sensor, flux sensor, memes sensor, sound sensor and temperature sensors. In the worst situation when we used any sensor is abnormal at that time with location place will be sent to the android mobile which is enrolled in the ARDUINO should get a notification like help needed. We are using LCD to display on the screen while sending notification like (person is in trouble, please click the below link). GPS gives only the longitude and latitude values but by using Android application in the mobile we can easily get the location name from where the message has been sent. The controller takes the sensors as its input i.e. when some threat has occurred one need to changes in sensor value and the controller makes the GPRS module to notification to the pre-stored in server. In this way the concerned person will know the location and they will be able to save the candidate. With a wide range of serial communications interfaces, they are also very well suited for communication gateways, protocol converters and embedded soft modems. Addition to this purpose system sensors is also their whenever women feels she is in danger at that time she presses sensors then buzzer makes a loud sound.

I. INTRODUCTION

The status of women in India is having a large history. There is a father dominating system in India. In older days women used to stay in home for the household work. But now a day the present scenario is that the women are working equally as of men. In each field there is a special impact of women. Like sports, dance, education, business, in politics also. Women are leading in each and every field. But still there is a safety issue of women. Are the girls in India are really safe? Always we get the answer No. However, women in India continue to face social challenges and are often victims of abuse and violent crimes. So we are going to design safety

circuits for women in our project. This project focuses on a security for women so that they will never feel helpless. The system consists of various modules such as GPRS modem shield (SIM 800), ARDUINO, GPS, flex sensor, Buzzer, temperature sensor, sound sensor and heart sensors for activation, Adaptor as power supply unit. The Delhi Nirbhaya case that triggered the whole nation was the greatest motivation for this system. It was high time we women needed a change. The Internet of things (IOT) is the network of physical devices, vehicles, and other items embedded with electronics, software, sensors, actuators, and network connectivity which enable these objects to collect and exchange data. Experts estimate that the IOT will consist of about 30 billion objects by 2020. As of 2016, the vision of the Internet of things has evolved due to a convergence of multiple technologies, including ubiquitous wireless communication, real-time analytics, machine learning, commodity sensors, and embedded systems.

Related work

G. Muneeswari et al proposed in this paper, an attempt has been made to develop a smart device that can assist women when they feel unsafe. This smart device will be clipped to the footwear of the user and can be triggered discreetly.

SuhasShirolproposed current global scenario, the prime question in every girl's mind, considering the ever rising increase of issues on women harassment in recent past is mostly about her safety and security.

Shrestha Sinha proposed a work is to develop a wearable device for the safety and protection of women and girls. This objective is achieved by the analysis of physiological signals in conjunction with body position

II. EXISTING SYSTEM

The Existing technique which can help the person from Heartbeat sensor and E-Button to maintain their privacy. So we have to propose intelligent alerts system which will help to prevent from being Zigbee using alert System.
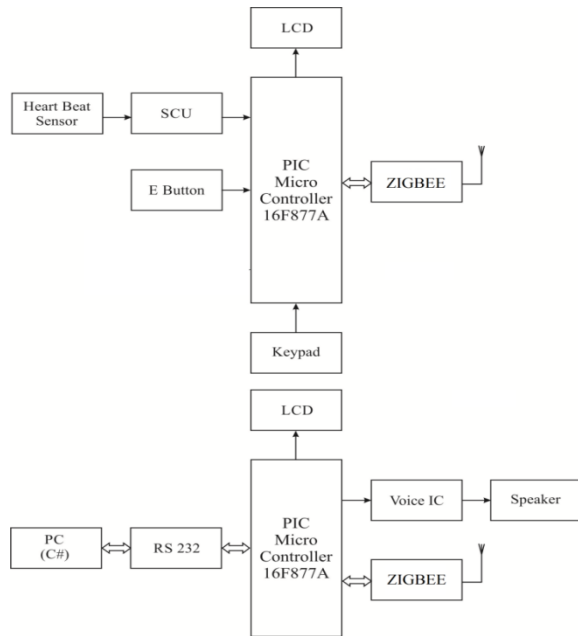
FIG: Basic block diagram

A. DISADVANTAGES:

- ✓ Accuracy low,
- ✓ Low Distance Only using these Devices.
- ✓

III. PROPOSED SYSTEM

The Aim of this project is to provide security to working and nonworking Women's. In this system, the security of women can be done with the help of the GPS and GPRS modem. In this system, the GPS trace the location of woman which is in dangerous condition and with the help of GPRS we can send the data to the server which is already used to on GPRS sim. The entire control is resided with the ARDUINO. In addition to this, there is one panic sensors .When we any changes in sensor the trigger of this abnormal then at that time the ARDUINO start working the first GPS is trace the location of the woman and with the help of GPRS the notification will send to the server which is save in the SIM. The notifications of this system sensors is also their whenever women feels she is in danger at that time she sensor then buzzer makes a loud sound. The block diagram of this system shown below.

A. ADVANTAGES:

- ➢ We can find the person because we using GPS
- ➢ Low cost
- ➢ Identify the user easily

B. FUTURE SCOPE:

- ❖ This project future scope of controller is changed in raspberry pi
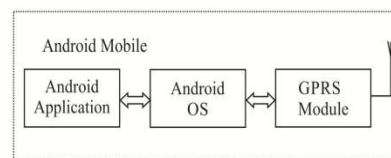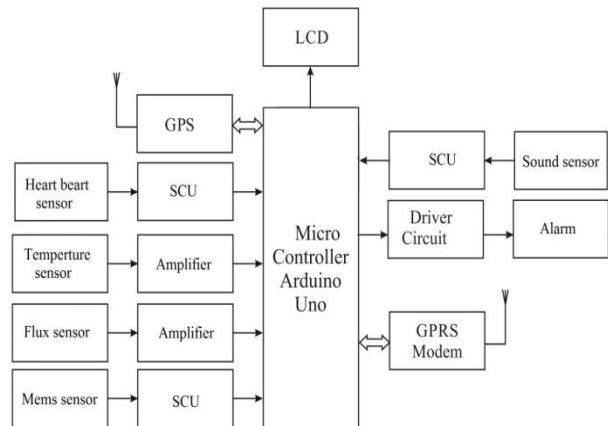- ❖ Then communication in root forming

IV. BLOCK DIAGRAM

FIG:Arduino Using block diagram

V. CONCLUSION

Supportive device with smart system has been used to converse if attacked. There are highest chances to reduced crime by this system. Shock preventive tools are used for anticipation of event, alarm bell used for notifying will be supportive methods to alert the hostility. Message through GPS and GSM technology is the additional part to help the individual. For immediate action against the criminal, video processing information can be used. Fear or anger of user has to be considered by using Camera application in future which will generate the message to the control room and an alarm will be activated. The system can perform the real time monitoring of desired area and detect the violence with a good accuracy.

REFERENCE

[1]. https://en.wikipedia.org/wiki/Internet-of-things

[2]. NanditaViswanath, Naga VaishnaviPakyala, Dr. G. Muneeswari,"Smart Foot Device for Women Safety", IEEE Region 10 Symposium (TENSYMP), Bali, Indonesia, May 2016.

[3]. G C Harikiran, KarthikMenasinkai, SuhasShirol, "Smart Security Solution for Women based on Internet Of Things(IOT)", International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), India, March 2016.

[4]. AnandJatti, MadhviKannan, Alisha RM, Vijayalakshmi P, Shrestha Sinha,"Design and Development of an IOT based wearable device for the Safety and Security of women and girl children", IEEE International Conference On Recent Trends In Electronics Information Communication Technology, India, May 2016.

[5]. D. G. Monisha, M. Monisha, G. Pavithra, R. Subhashini,"Women Safety Device and Application-FEMME", Indian Journal of Science and Technology, Vol 9(10), DOI: 10.17485/ijst/2016/v9i10/88898, March 2016.

[6]. GowriPredeba.B, Shyamala.N, Tamilselvi.E, Ramalakshmi.S, Selsiaulvina. C, "Women Security System Using GSM and GPS", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)vol. 3, Special Issue 19, April 2016.

[7]. Ms. G. Rathi, M. T. Prathipa, Ms. R. Ramya, Ms. B. Vidhya, "Smart Security Solution for Women Using Wearable's", IJAICT Volume 3, Issue 11, Doi:01.0401/ijaict.2017.03.03, March 2017.