

International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)

Impact Factor: 5.22 (SJIF-2017), e-ISSN: 2455-2585 Volume 5, Issue 04, April-2019

HIGH LEVELSECURITY FOR OUTGOING WOMEN & CHILDREN BY AUTOMATIC SENSING OF THREATS USING IOT

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Abstract-In our Country, despite the fact that it has super power and a financial improvement, yet at the same time there are numerous wrongdoings against ladies. The barbarities against the ladies can be finished with the assistance. This gadget is a security framework, uncommonly intended for ladies in trouble. Strategy/Analysis: Using microcontroller for the equipment gadget is the most proficient and it devours less power. Here utilize radio recurrence flag indicator to recognize concealed cameras. Discoveries: here broke down that there is no security gadget for our all-out wellbeing. The client needs to convey different gadgets. We found a security gadget which has every one of the highlights. Applications/Improvements: In this project I utilized microcontroller and android application in which both the gadget and the advanced cell are synchronized utilizing Bluetooth, henceforth both can be activated freely. It can record sound for further examination and can give an alarm call and message to the pre-set contacts with the moment area like clockwork and can be followed live utilizing our application. Shrouded camera finder is additionally an unmistakable element utilizing which I will guarantee of my protection. It will save the women within limited time period and can monitor the every location with the current address. It will be easy to protect the women's from the abnormal condition by sensing the human body of the heartbeat, temperature and motion sensor. It senses the threshold value of the different sensors with the normal value of human body. The device is to send the collected data to the police control room and parents. The gathered data is to be useful to save the women from the tragedy. In this project, I send an alert call to the guardians who are placed within 20 meter feet from the mobile users. It will help the women to save and protect easily.

Keywords-microcontroller, Bluetooth, alarm call, motion sensor.

I. INTRODUCTION

At the present scenario Women are competing with men in every prospect of society. Women contribute fifty percent to the development of our nation. But the women have fear of getting harassed and killed. All these types of women harassment cases are increasing day by day. So it is very important to ensure the safety of women. In this project proposed model of a band will provide a required safety to women so that they can do late night work. Proposed model contains various sensors which will measure different parameters continually. IoT (internet of things) is relatively new and fast-developing concept. By using IoT-based technology guardians, relatives and police can monitor and track different sensors value and position of a device. A device is wearable and so it is easy to carry.

II. LITERATURE SURVEY

In the existing system proposed that for past few years, there are no secured and safe for outgoing women and children in the society. Most of them are harassed and are killed. To overcome this problem he introduced the device which gave safety for women working and outgoing person. He proposed the device by using microcontroller, GPS and GSM.by this some unconditional state of women help to send alert message for their parents and relatives to save her. And the device is hidden camera, is not safe for women in all condition. The device is with buzzer sound. But the device is drawback of disconnecting network and it only include in mobile phone not in the android for better application. The hidden camera is easily identified by theft and can disconnect the device. To overcome this drawback I proposed the device by using android application for more information gather from the device. In this system he proposed only the safety of women in the untimed work.

III. POWER SUPPLY

It is used for automatic power supply on/off in the main board. It is used to reduce the power transfer to circuit board and also used to reduce the voltage supply. It is of step down process. It sends the power to all the equipment in the device and transfer required power supply to them.

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MICROCONTROLLER

It is the main process in circuit board. It is used to run the program which is stored in the memory. It is used in low power consumed device.by using this output is display in the lcd. It is small in size and cost is low. It is used to control all devices and also the embedded systems used in the device. It is of very cheap. It is easy to expand the application. It can support high reliability and high performance then to be secured. It will be more and more extensive.

GSM

It is used in the mobile phone to transfer message from anywhere to anybody with clear voice and data message. It is of digitalized and can reduce the size of data, then it sends the message. By using low power modems is to connect the device. It is to be controlled by sim card.

GPS

It is used to find the lost person by heir directions of cell phone. This can work without establishment of internet connection. It can be used to tracking the device fixed in the mobile phones. By using this cell phone can be able to receive and display the google map location and can find he lost person.

LCD

It is of used to send and receive the messages from and to users through the light. It is mainly used in seven segment display. It is used in low power consumption and the cost is low and effective. It is only used in AC power supply. The display is of transparent glass and can view easily. It is to display the alert message and working process of device.

VOICE RECORDER

It is used to record the voice and can store the message. The messages can be sequentially regain from the message received. It is of both recording and hold more than 100 messages. It is to be light weight and easy to gather. The circuit can be record and can play in the circuit. The recording voice can be easily transferred to the computer through USB cable. It is work under low power consumption.

IV. SOFTWARE

KEIL C

It is used in the microcontroller for create and debug the program as per the embedded system. It requires mostly in the real time application. It is used to compile and execute the program. By using this to reduce the size of the coding is execute in the program. It is very efficient and more accuracy. It is to be definite and clear view of process. This is used for designed to clear the problems in easy way. It is simple and easy to debug the code with compress of 100 words in one line.

ANDROID MOBILE

It supports large number of powerful operating system. It is more advanced and comfortable for available users. It is used by large number of users in wireless communication. From this is to develop the app in android is of java, c and c++. It can simultaneously run multiple apps at a same time. It is used on a worldwide operating device. These are very vast and to work a large process. It is used to reduce the sending the message to others with limited amount and have more memory. It is easier to use the software by user. It is done with more performance.

V. WORKING PROCESS

The working principle of the proposed system is of the outgoing women and children in the society are with no security. To overcome this problem, when the women is in endangered condition is to check automatically the heartbeat, temperature and motion threshold value by the device is calculated. Then the alert message is send to parents, guardian and police control room to safeguard the women and children. By this a call is also send to any one of the nearest area of the mobile user, search in the contact list and a call to be transferred. By sending alert message to the police in addition with current location of the mobile user by using gps in phone. A device is to gather different threshold values from the sensors and measure the abnormal value. After this send the values for further clarifications. These are done in a fraction of seconds. By using this device we can save many women and children from the unsafe condition.

VI. OUTPUT PROCESS



Fig: 1 output process

From this project, to protect the women from harassed condition is of first buzzer sound is hear when the threshold level of normal from the heartbeat and temperature value. Then it send alert message to the parent, guardian and police control room to find the person location using GPS/GSM. In addition phone call is sending to nearest neighbor from the mobile user contact list. By this the lost person is finding and save the women and children.

VII. CONCLUSION & FUTURE SCOPE

The proposed system is of send the alert message and call to the neighbors is within 20 meters distance "HELP&POSITION" to the relatives and the Police Station utilizing Internet of things. By this can save the women and children from the abnormal condition in anywhere and in anytime. The safety for women are by security and can easily protect them from harassed and rapes which increasing day by day. In this system is by only wired system. In future this can be implemented in wireless system and to be waterproof.

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