



ICNSCET19- International Conference on New Scientific Creations in Engineering and Technology

Women Safety Device Using GPS Tracking and Alert

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Abstract

Women safety is a very important issue due to rising crimes against women these days. To help resolve this issue we propose a gps based women safety system that has dual security feature. This device consists of a system that ensures dual alerts in case a woman is harassed or she thinks she is in trouble. This system can be turned on by a woman in case she even thinks she would be in trouble. It is useful because once an incident occurs with a woman she may or may not get the chance to press the emergency button. In a button press alerting system, in case a woman is hit on the head from behind, she may never get the chance to press panic button and no one will know she is in trouble. Our system solves this problem. This device is to be turned on in advance by a woman in case she is walking on a lonely road or some dark alley or any remote area. Only the woman authenticated to the devices can start the system by fingerprint scan. Once started the devices requires the woman to constantly scan her finger on the system every 1 minute, else the system now sends her location to the authorized personnel number through SMS message as a security measure and also sounds a buzzer continuously so that nearby people may realize the situation. In this case even if someone hits the woman or the woman falls down and get unconscious, she does not need to do anything, the system does not get her finger scan in 1 minute and it automatically starts the dual security feature. This device will prove to be very useful in saving lives as well as preventing atrocities against women

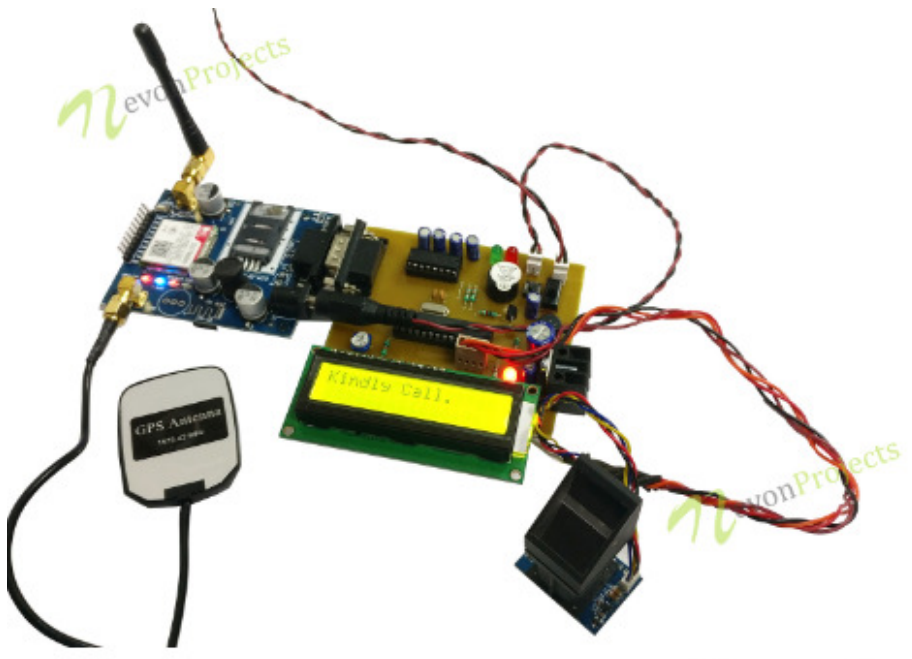
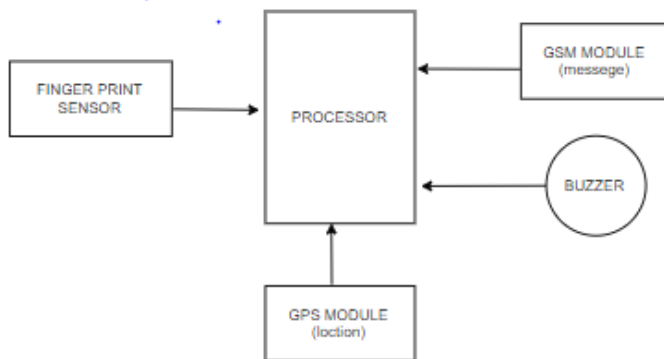
I. INTRODUCTION

In current scenario, violences against the women community is increasing drastically .women safety is is under a great thread nowadays. Thousands of illegal activities against the women were reported all over the world .so far no other security systems that ensures the women safety were developed. we intended to create a security system which can be used as a personal device.the women can hold the the device with her any time. we used fingerprint sensor as the major component of our system.

II.SYSTEM ARCHITECHTURE

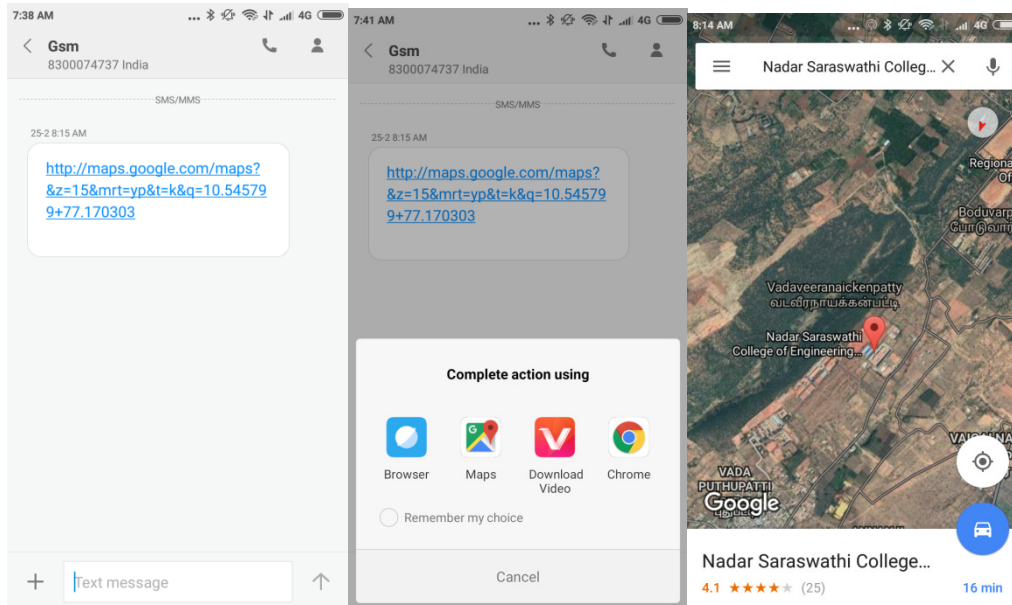
he finger print sensor is authenticated the particular person who use it when the women having the device feels insecure,can initiate the device by placing the finger on the sensor.she have to place her finger on the sensor periodically within 1 minute.incase the women was brought under a trouble she was unable to place her finger on the finger print sensor with in the interval then the location of the women is continuously detected by the gps and it is sent to the registered mobile number by the gsm.our system is a duel security system it also initiates a buzzer which sounds continuously to get help from the nearby people.the main advantage of our system it won't exposed to other people,the woman can hide it easily. it act as the personal device as only one person can use it .it will be the great remedy for reducing the illegal activities against the women

III.SYSTEM DESIGN



The biometric of the women who is going to use the device is registered in the finger print sensor.the device initiates once the women place her finger on the finger print sensor. The sensor is coded such that ,Once the sensor is initiated the women has to place her finger frequently on the sensor for every 1 minute. with in that 1 minute if the person was unable to do that the GSM &GPS was initiated. GSM SIM 900 module is use to send the link as the message,GPS 28ml is used to detect the location of the person. The location of the women is continuously sent from the GSM to the trusted person of the women.the buzzer is also initiated so that the nearby people can also help her. Only the authenticated person can use this device if any other person is placing the finger then the sensor will not respond hence, the system will act as a personal device. The GSM will send the message as a link in the google map which contains the lattitude and longitude value of the exact location of the women.

IV.RESULT



V. CONCLUSION

We have designed a topology of our project for the women welfare .On further development of our project the device can be installed in their ornaments like wrist band or watches etc....we will also create an app which executes the same function of our device.it will be more effective than holding a hardware device any time.the major advantage of our system is, it is a compact system and easily portable.it very helpful for the police department in finding the women who were lost.On improvising our system we may also able to locate the near by police stations and we can send the location of the woman who is trouble.With the help of our system we may greatly reduce the raising crimes against the women community.

REFERENCES

- 1.G. Monisha, D . Monisha, M . Gunasekaran, Pavithra , Radhakrishnan&Subhashini, "Women safety device and application-FEMME". Indian Journal of Science and Technology. 9. 10.17485/ijst/2016/v9i10/88898,2016
- 2.Edward and Shirly. "GSM Based Women's Safety Device". International Journal of Pure and Applied Mathematics. 119.2018).
- 3.Shubham sharma,fasil ayaz,rajan sharma&divya jain"IOT based women safety device",IJESC,vol 7, 5,2017
- 4.Nishant Bharawajand nithish aggarwal,"Design and developement of suraksha-A women safety device",International journal of information&technology,ISSN 0974-2239,vol 4,number 8,pp787-795,2014

