International Journal of Scientific Research in Computer Science, Engineering and Information Technology
© 2019 IJSRCSEIT | Volume 5 | Issue 2 | ISSN : 2456-3307
DOI : https://doi.org/10.32628/CSEIT1951133

Women's Safety System

Nivetha S[1], Suganthi R[2]

[1]Assistant Professor, Department of Information and Computer Technology, Sri Krishna Arts and Science College, Coimbatore, Tamil Nadu, India

[2]B. Sc., Department of Information and Computer Technology, Sri Krishna Arts and Science College, Coimbatore, Tamil Nadu, India

ABSTRACT

Although a lot of women safety systems are already available in the market but still a more sophisticated system is required to provide more safety and security. Thus in this paper an alternative method is proposed for women security that may serve as a better alternative to rest of the available security methods. Here the system is designed around Arduino micro-controller that uses GPS, GSM, watch, shockwave generation circuit and an accelerometer for better security.

Keywords : Arduino Micro-Controller, GPS, GSM and Mems Sensor, Shock Generator.

I. INTRODUCTION

Women safety is a very big concern in a country like INDIA where women are playing an outstanding role in each and every field.

India is a peace loving country and one of the safe destination for the tourists across the world. However, a few incidents in recent past brings to attention that there is a need for women safety. Many women's in developed countries still fear to go outside alone due to number of cases of violence against women. To make women safety safer many attempts have been made but, still a safer and secure system is needed that can ensure safety during public transport and in general. This, paper presents a system that is capable of providing more security and safety.

II. LITERATURE SURVEY

The status of women in India has gone through many great changes over the past few millennia. From equal status with men in ancient times through the low points of the medieval period to the promotion of equal rights by many reformers, the history of women in India has been eventful. In modern India, women have adorned high offices in India including that of the President, Prime Minister, Leader of the Opposition and Speaker of the Lok Sabha. However, women in India continue to face social challenges and are often victims of abuse and violent crimes and, according to a global poll conducted by Thomson Reuters, India is the fourth most dangerous country in the world for women, and the worst country for women among the G20 countries. Womens security is a critical issue in todays world and its very much needed for every individual to be acting over such an issue. Many unfortunate incidents have been taking place in womans case.

Problems may come from any direction such as women walking on the road after the work, going to super market or many other reasons for which they go alone. People at home are not sure of their return safely. Another factor is woman die without knowing the reason as they attend excursions and industrial trips conducted by the organizations. It happens due to attacks on woman but not suicides. In 2013 there happened an incident which is a gag rape in New Delhi in the case of 23 year old woman in bus at 9:30 PM. Another incident that has taken place at Mumbai in the case of woman who is leaving her native place after Christmas holidays has been kidnapped and killed. These are some of the problems that have taken place in the day to day life of women. The IT companies are looking forward to the security problem and require a system that will efficiently evaluate the problem of women employees security working in night shifts.

It is an unfortunate observation that there has been a substantial increase in crimes against women in the past decade. According to the National Crime Records Bureau (NCRB), in India, 93 women were raped everyday in the year 2015.Also 3,37,922 cases of crime against women were reported in year 2014 alone. But rights workers say that the figures are likely not an accurate representation of the scale of the problem, as stigma surrounding sex crimes means many attacks are not reported.

Kavita Krishnan, secretary of the All India Progressive Women's Association, warned that the figures should be analysed with caution. Kavita Krishnan, secretary of the All India Progressive Women's Association, warned that the figures should be analysed with caution. Sexual violence against women in India rose to the forefront internationally after the December 2012 death of a young woman who was gang-raped on a bus in New Delhi. The brutal attack triggered domestic and global condemnation and widespread protests across India over the high levels of violence against Indian women and children. Sexual harassment and child abuse is definitely a cause for concern in India, said Shreya Jani, who runs a peace education NGO in New Delhi.

In recent years, acts of assault and violence against women are rising at a menacing rate. With escalation of female employees in industries and other sectors of the commercial market, it is now becoming a necessity for females to travel at late hours and visit distant and isolated locations as a part of their work regime. However, the exponential increase in assault,violence and attacks against women in the past few years, is posing a threat to the growth and development of women.

III. PROPOSED SYSTEM

Fig. below shows the block diagram of proposed system for women safety.

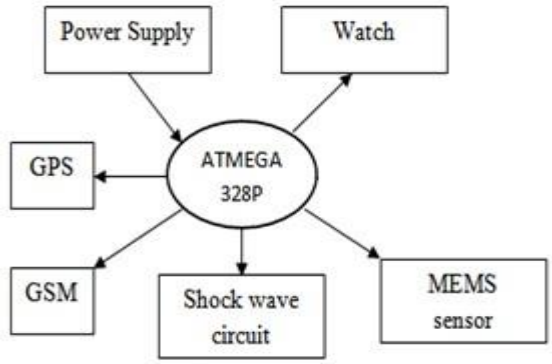

Fig 1. Block diagram of Women safety system

As shown in the fig. the circuit is designed around microcontroller ATMEGA 328P. Here the MEMS sensor is used to sense any mishappening with women according to the extraordinary movement of body. If in any case MEMS sensor is unable to sense the mishappening then the switch in the watch can be pressed manually to indicate any mishappening. As soon as any mishappening is detected by the sensor the same is indicated to controller. Upon

receiving the signal the controller starts generating shock waves through shock wave circuit and at the same time a message containing location of the victim obtained through GPS is transmitted to the relative or friend whose number is already in the program.

IV. CONCLUSION

In this research an intelligent and sophisticated Women safety is proposed. The paper shows that the system ensures complete women safety during public transport. And this proposed system gives self-defence to the women.

V. REFERENCES

[1]. Dr. Sridhar Mandapati, Sravya Pamidi, Sriharitha Ambati, "A Mobile Based Women Safety Application", OSR Journal of Computer Engineering (IOSR-JCE)-ISSN: 2278-0661, ISSN: 2278-8727, Volume 17, Issue 1, Ver. I (Jan –Feb. 2015)

[2]. Abhijit Paradkar, Deepak Sharma, "All in one Intelligent Safety System for Women Security" , International Journal of computer Applications (0975 – 8887) Volume 130 –No.11, November2015

[3]. https://www.robomart.com/arduino-uno onlineindia

[4]. Poonam Bhilare, Akshay Mohite, Dhanashri Kamble, Swapnil Makode and Rasika Kahane, Women Employee Security System using GPS And GSM Based Vehicle Tracking, International Journal for Research in Emerging Science and Technology, volume-2, issue-1, january-2015.

[5]. https://elementztechblog.files.wordpress. com/2014/06/img_0078-copy.jpg

[6]. Smart girls security system-Prof. Basavaraj Chougula, Archana Naik, Monika Monu, Priya Patil and Priyanka Das,International Journal of Application or Innovation in Engineering & Management (IJAIEM) ISSN:2319-4847 Volume 3, Issue 4, April 2014.

[7]. Self defence system for women with location tracking and SMS alerting through GSM networkB.Vijaylashmi, Renuka.S, PoojaChennur, Sharangowda. Patil International Journal of Research in Engineering and Technology(IJRET) eISSN: 2319-1163 | pISSN: 2321-7308 Volume: 04 Special Issue: 05

[8]. Poonam Bhilare, Akshay Mohite, Dhanashri Kamble, Swapnil Makode and Rasika Kahane, "Women Employee Security System using GPS And GSM Based Vehicle Tracking",Department of Computer Engineering Vishwakarma IOT Savitribai Phule Pune University India, E-ISSN:-2349- 7610 INTERNATIONAL JOURNAL FOR RESEARCH IN EMERGING SCIENCE AND TECHNOLOGY,Volume-2, ISSUE-1, JAN-2015.

Cite this article as :

Nivetha. S, Suganthi. R, "Women's Safety System", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456-3307, Volume 5 Issue 2, pp. 34-36, March-April 2019.
Available at doi :
https://doi.org/10.32628/CSEIT1951133
Journal URL : http://ijsrcseit.com/CSEIT1951133