A Review on Various Techniques of women safety and security

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***Abstract*- Despite of us being in a cosmopolitan atmosphere surrounded by high end technologies we have not been able to create an environment which is safe for women's. Women's are subjected to harassment while they are on the move and also while they are at their work place. As more and more women's are now opting to work out the problem has multiplied over the years and to add over it women's are opting out for jobs with odd working time specifically the night shifts. In this work we try to review work done by different researchers over the years and try to present some insight gained from the survey carried out. On the basis of the review carried out we propose a system which will work like a smart gadget and whenever the women is in danger and is being overpowered by the suspected offender, the system will record the location detail and forward an SMS to the registered number and at the same time it will capture the image of the offender and store in the memory card. The proposed system will be helpful to women's whenever they in danger from such offenders.**

Index Terms- Safety System, GPS, GSM, Embedded System

I. INTRODUCTION

In today's world, women safety has become a major issue as they can't step out of their house at any given time due to physical/sexual abuse and a fear of violence. Even in the 21st century where the technology is rapidly growing and new gadgets were developed but still women's and girls are facing problems. Women are adept at mobilizing diverse groups for a common reason. They often work across ethnic, religious, political, and cultural divides to promote liberty. We are all aware of importance of women safety, but we must analyse that they should be properly protected. Women are not as physically fit as men; in an emergency a helping hand would be assistance for them. The best way to curtail your probability of exposure of violent crime (robbery, sexual assault, rape, domestic violence) is to recognize, and arm yourself with resources to help you out of hazardous situation.

II. LITERATURE SURVEY

1. L. Ashwin Kumarin his work "Mobile Application for News and Interactive Services" published in ARPN Journal of Science and Technology 2010-2012 ARPN Journals describes the design and implementation details of a mobile application supporting news access and virtual community interactive services, based on open technologies such as Android, Java programming language, Android libraries, MySQL database and an open Web server. The objective of this project is to handle the mobile application easily, interactive, flexible, with a portable Android.
2. Prof. Basavaraj Chougula, Archana Naik, Monika Monu, Priya Patil and Priyanka Das, in their work "Smart Girls Security System", published in international journal of application or innovation in engineering & management (ijaiem) Volume 3, issue 4, April 2014 ISSN 2319 –4847have proposed the best protection security for woman's safety based on programming.
3. "Abhishek S. Parabetal, In his work " GSM based wireless home security system " published in IJCSIT International Journal of Computer Science and Information Technologies, Vol. 6 (3), 2015, 2950-2953". Present's the design and implementation of a GSM based wireless security system. This system contains the various parameters for security purpose, which contains

a GSM modem. This system rapidly detects an intruder & conveys this information for alert women.

4. Ramya R, Hari Prashanth.D, Usha M, in their work "A GSM Based Security Device for Women Working Late Night" published in International journal of advanced research in computer engineering & technology (ijarcet) Volume 4 issue 4, April 2015 gives a brief explanation about the camera based for night work of woman and the technique used.
5. B. Vijaylashmi, Renuka.S, Pooja Chennur, Sharangowda Patil in their work " Self-defence system for women with location tracking and SMS alerting through GSM Network"- published in International Journal of Research in Engineering and Technology(IJRET) eISSN: 2319-1163 | pISSN: 2321-7308 Volume: 04 Special Issue presented a system which finds the location of user through GPS system.
6. Dongare Uma, Vyavahare Vishakha and Raut Ravina," Based on An for Women Safety Android Application Voice Recognition", Department of Computer Sciences BSIOTR wagholi, Savitribai Phule Pune University India, ISSN 2320–088X International Journal of Computer Science and Mobile Computing (IJCSMC)online at www.ijcsmc.com,Vol.4 Issue.3, pg. 216-220,March- 2015
7. Vaijayanti Pawar, Prof. N.R.Wankhade, Dipika Nikam,Kanchan Jadhav and Neha Pathak, "SCIWARS for Women Safety", Department of Computer Engineering, Late G.N.S.COE Nasik India,ISSN: 2248-9622 International Journal of Engineering Research and Applications Online at the linkwww.ijera.com, Volume 4, Issue 3(Version 1), pp.823-826, March 2014.
8. Bhaskar Kamal Baishya, "Mobile Phone Embedded With Medical and Security Applications", Department of Computer of Science North Eastern Regional Institute and Technology Nirjuli Arunachal Pradesh India, e-ISSN: 2278-0661 p- ISSN: 2278-8727 IOSR Journal of Computer Engg (IOSR-JCE)www.iosrjournals.org, Volume 16, Issue 3 (Version IX),PP 30-3, May-Jun. 2014.
9. Toney G, Jaban F, Puneeth S.etal. "Design and implementation of safety arm band for women and children using ARM7". 2015 International Conference on Power and Advanced Control Engineering (ICPACE); Bangalore. 2015 Aug 12-14. p. 300–3.

On the basis of literature review carried out we find a need to develop a system which gives the where about of the women when she is in danger. The GPS will record the current location and will forward it in the form of an SMS to the registered user

III. PROPOSED SYSTEM

Here we will use vibration sensor. When the value of vibrations will exceed the threshold then the camera will capture the image and store it in the SD card in Raspberry Pi.

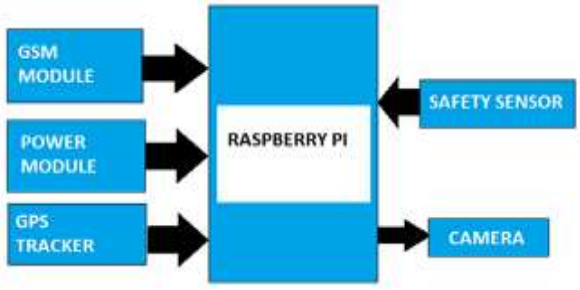

Figure 1: Block diagram of the female safety gadgets

VII. CONCLUSION

Thus we conclude that we have been able to carry on review of different techniques that have been used over years for women safety. On the basis of literature review carried out we also propose a system which will act as a safety gadget for the women's and may help het to give the information of where about to the concerned person in danger and at the same time will be able to record the picture of the offender in the SD card..

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