Review Article

A Review on Various Techniques of women security

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Abstract

Women built in public transport vehicles such as cars, buses and auto-rickshaws as nowadays women are being molested, kidnapped and harassed by the drivers. Hence implemented electronic system is fitted in the vehicle which has display, keypad, GPS, GSM and embedded board to control and interconnect all of the above. As journey is started passenger can enter her guardian, friend or relative mobile no, he/she is going to get all the notifications of the female passenger journey. First of all the driver's name, mobile number, vehicle registration number and the secure pin generated by passenger is sent by SMS to the concern person of passenger . We can also add destination region even though if the concerned person does not check the updates, then also it would be useful in investigation, if any mishappening occurs. Passenger may always not get down at destination decided , she may get down little early or little further depending on various factors, hence an option to terminate journey is also provided called as end of journey which is executed and validated using secure pin, which driver will not be aware of . This system uses serial EEPROM to store various locations of cities and hence new locations can be added and thus project will work in any city because locations are not hardcoded in the code but it is external to code.

Keywords: Safety System, GPS, GSM, Embedded System.

1. Introduction

This 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 analyze that they should be properly protected. Women are not as physically fit as men, in an emergency situation a helping hand would be assistance for them. The best way to cur tail your probability of becoming a dupe of violent crime (robbery, sexual assault, rape, domestic violence) is to recognize, defense and look up resources to help you out of hazardous situation. If you're in dilemma or get split from friends during a night out and don't know how to find back residence, this device with you will guard you and can reduce your risk and bring assistance when you need it. There are several app reduce the risk of sexual assault on women by informing control centre and their associates through SMS, but inlay of those this apparatus have much more

efficient way to inform those this respected personals and also has a defending system which cannot be provided by existing app.

2. Smart intelligent security systems for women

A. Intelligent security system for girls in hostel

There is many different techniques for security system for women's as discussed below:

Amol Sapkal, Samiksha U.Katait introduces the Intelligent security system for girls in hostel *provides security* technique This proposed work enlightens upon the invention as well as technology advancement in the field of security. In this proposed work the concept of finger print authentication will be used as password.
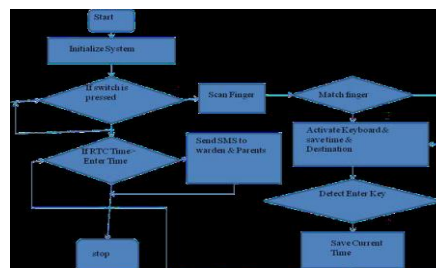

Fig.1 System flowchart

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This system provides the security for the girls in the hostel and save the time. This proposed system uses the Real Time Security Management System which enables efficient and easy way of security monitoring in big organization, real time status monitoring and smart massaging definitely make the security management more efficient and reliable. RFID card can be used for identification but it is not safe. So to overcome this drawback, we use fingerprint technology, hence no one can use the other name as the every human being has different design pattern on finger.

B. A Mobile Based Women Safety Application (I Safe Apps)

According to above paper,we can provide security by using Real time security management system with the help of RFID Card.In this paper we use mobile base application which can provide women security.

In the study provided insight into the opportunities and challenges involved in delivering health-related behavioral interventions through smartphone apps. The findings suggested a number of valued features and characteristics that app developers may wish to consider when creating health behavior apps. Findings also highlighted several major challenges that appeared the need to further consideration and research to ensure the development of effective and well-accepted behavior change apps. In report by Vodafone on Connected Women, How mobile can support women‟s economic and social empowerment. The use of mobiles improves the women‟s access to literacy, banking, health, empowerment and business opportunities.

The experiments were performed using a Intel(R) Core(TM) i3 M380@2.53GHz CPU with 4GB RAM and 80 GB hard disk, android mobile with the support of wifi. In the development of the I safety (woman security application) mobile app the software requirements are Front End is Android Application, Web Application is Servlet Java development kit 1.6.0 or above, Eclipse IDE for Android , My Eclipse IDE for java web Applications Android SDK 20.0.1 , Connective wifi router software.

This mobile application is very much helpful for any woman. Because when a woman is in danger position then she simply touch this I Safety mobile app and alert their guardians that the woman is in danger. By simply touching the app it sends the call for the first added guardian number and sends the message that she was in danger and sends the location message to the all saved guardian contacts. Through this mobile app we can alert the people at home that a woman belonging to their house is safe or not.

C. Design and Development of Suraksha-A Women Safety Device

Nishant bharadwaj and Nitish Aggrawal Introduces India which sees itself as a promising super power and an economic hub, is still trapped in the clutches of various patriarchal evils like molestations, dowry, crime against women, worst among all is Rape. The atrocities against the women can be now brought to an end with the help of a device called suraksha. This paper explains the basic idea underlying suraksha which is to flash a warning giving an instant location of the distressed victim to the police so that the incident could be prevented and the culprit apprehended. This would help reduce crime against women. The device can be actuated by three ways namely, voice, switch and shock.

D. Smart Electronic System for Women Safety

S Shambhavi, M Nagaraja, M.Z Kurian proposed a technique which describes about a safety electronic system for women, built in public transport vehicles such as cars, buses and auto-rickshaws as nowadays women are being molested, kidnapped and harassed by the drivers. Hence implemented electronic system is fitted in the vehicle which has display, keypad, GPS, GSM and embedded board to control and interconnect all of the above
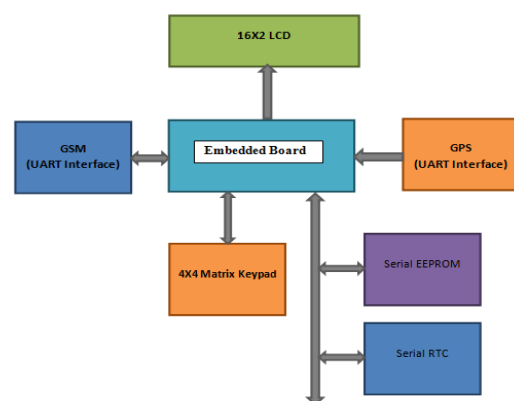
Fig.2: Block Diagram of the Women Safety System

In this work implementation smart electronic system has been implanted using microcontroller, GPS, GSM etc. This electronic security system can be used as a tracking device to ensure women safety during travelling in various public transport vehicles such as cabs, taxi, auto rickshaw etc.

Conclusions

In this paper, we have proposed different techniques for women security by using RFID,I safe mobile apps, suraksha women safety device so on. It can be seen that women security has been done by using different

methods, also in future work different automatic methods achieve more accuracy and more efficient.

Acknowledgment

References

E. Peter, Andrew, and B Paul, S. Matt, H .Jason, P. Carlos, and M Scarlett (2013), Designing Public Safety Mobile Applications for Disconnected, Interrupted and Low Bandwidth Communication Environments. IEEE. 10 (978-1-4799-1535-4/13), p790-796.

Suraksha, A Device To Help Women In Distress: An Initiative by A Student Of ITM University, Gurgaon efytimes.com.2013.http://efytimes.com/e1/118387/SURA KSHA-A-Device-To-Help-Women-In-Distress-An-Initiative-By-A-Student-Of-ITM-University-Gurgaon.

en.wikipedia.org/wiki/radio_frequency_identification.

http://timesofindia.indiatimes.com/topic/mobile-apps-for-women's-safety.

www.darkreading.com/perimeter/new_onoff_switch_protect s_rfid_cards_fro/211201220.

Radio frequency Identification: Applications and Implications for consumersFTC.gov.March 2005.Retreived 2013-09-22.

www.electronicsforu.com

Real time location systems,clarinox.Retreived 2010-08-04.