"RFID Based Women Safety System with Automatic Street Light Control System"

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Abstract

Today in the current global scenario, the prime question in every girl's mind, taking into account the ever rising increase of issues on women harassment in recent past, is only about her safety and security. The only thought haunting every girl is when they will be able to move freely on the streets even in odd hours without worrying about their security. Even in the 21st century where the technology is rapidly growing and new gadgets were developed but still women and girls are facing problems. This thesis suggests a new perspective to use technology to protect women. The implementation of women security system via RFID and GSM serves the purpose.

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 and girls are facing problems. Even today in India, women can't move at night in secluded places and even at day time crowded places hundreds and thousands of incidents of physical/sexual abuse happens to every day women in this country. Among other crimes, rape is the fastest growing crime in the country today. In this paper we have implemented women safety system on atmegA328 microcontroller via GSM modem and RFID module.

Literature Review

1. Design of women safety system using RFID,8051microcontroller and GSM based technology   a Prototype by Shaik Mazhar Hussain1, Shaik Jhani Bhasha2

The women wearing a watch or band when finds that someone is going to harass, she presses a switch that is located on the watch or band which then activates the active RFID tag and then the signal gets transmitted to RFID reader which then decodes the received information (either some code or name) and then activates theAT89C51 microcontroller in which contacts of 4 people and message "HELP" is stored in memory is sent to the destination through GSM. In this paper women safety system is implemented on AT89C51 microcontroller via GSM modem and RFID module and the interfacing is done through MAX-RS 232.

2. Design and Development of "Suraksha"-A Women Safety Device by Nishant Bhardwaj1 and Nitish Aggarwal
The device, named as "Suraksha" is a security system specially designed for women in distress. It is a simple and easy to carry device with magnanimous functionality.The basic approach is to intimidate instant location and a distress message to the cops and registered number, so that unfortunate incidents would be averted and to provide real time evidence for swift action against the perpetrators of crime against women.Currently the work is under process to miniaturize it so that it could be embedded in jewelleries, mobile phones etc in order to make it a versatile instrument for masses. It can play a major role in the upcoming projects such as CCTNS (crime and criminal tracking network and system) in which all the police records all over India are digitised and all the police station throughout the country will be integrated.

System Architecture

The proposed system will control the entry and exit of employees using RFID (Radio Frequency Identification) and GSM technologies to ensure the entering and exiting of all employees in a safer manner. It also has automatic street light control system that can be implemented in low density areas

Summary

Software architecture helps you in implementing a vision. Looking at the architecture is an effective way to view the overall state of IT and to develop a vision of where the project needs to or wants to go with its structure.
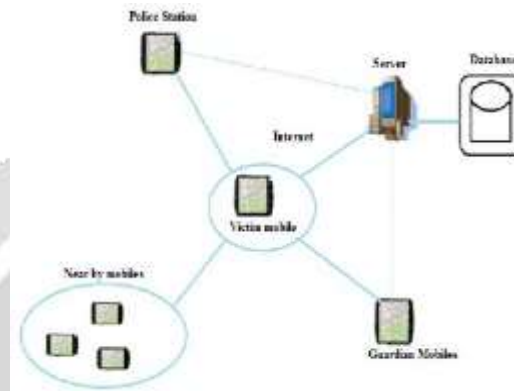
Conclusion

The project has been successfully designed and implemented for the "Design of women safety device using RFID and GSM based technology" It has been developed by integrating features of all the hardware components used. Presence of every module has been reasoned out and placed carefully thus contributing to the best working of the unit.Secondly, using highly advanced IC's and with the help of growing technology the project has been successfully implemented and tested.

Refernces

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