DEVELOPMENT OF SMART SECURITY SYSTEM FOR WOMEN BY RASPBERRY PI

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ABSTRACT

In worldwide good intelligent security system are needed for girls for security purpose. Ladies everywhere the globe face abundant unethical physical harassment. This acquires a quick pace thanks to lack of an acceptable closed-circuit television. Our project could be a venture to resolve this drawback. We have a tendency to area unit victimization 2 objects wrist joint band and spectacles that area unit utilized in day to day life. The system resembles a band on the wrist joint incorporated with pressure switch as Associate in nursing input that once activates shows the result Screaming alarm and tear gas mechanism area unit obligatory for self-defending purpose and send location and messages to the emergency contacts and conjointly puzzle out the assailant victimization live streaming video. Tear gas mechanism and live streaming video victimization digital camera is incorporated within the spectacles that act as a weapon of the good technology. We actually believe that this endeavor can build a distinction within the ladies life.

1. INTRODUCTION

The status of women in India has gone through many great changes over the past few millennia. In modern India, women 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. With, is Associate in Nursing emergency App that, at the clicking of the facility button of your Smartphone a pair of times consecutively begins causation out alert messages each a pair of minutes to your contacts that you simply feed into the app because the selected receivers or guardians. The message says "I am in peril. i would like facilitate. Please follow my location."

This small gun charges AN aggressor with an electrical shock. The shock weakens the aggressor quickly, providing you with sample likelihood to flee the scene. Once its trigger is force, a weapon pumps regarding 700,000 volts into the attacker’s body. Some stun guns are sufficiently small to be hid in a very pack of cigarettes. They run on metal batteries and might be carried either in purses or control in waist straps. This project focuses on a security system that is designed
solely to serve the purpose of providing security and safety to women

2. EXPERIMENTAL SETUP

It consists of Pressure switch, Raspberry pi two, GSM modem, GPS receiver, Screaming alarm, Tear gas, and Live Steaming Video. Once the Pressure switch is ironed, the device can get activated mechanically with in an exceedingly fraction of milliseconds. Forthwith the situation of the victim are going to be half-track and messages are going to be sent to emergency contacts. The screaming alarm unit are going to be activated and can turn out siren sound to decision out for facilitate. Tear gas is applied to hurt the wrongdoer which can facilitate the victim to flee. Live Streaming Video can build to method matters of the victim employing a most well-liked information processing address in order that it facilitate to detects the face of the wrongdoer beside the encompassing setting that helps to work out simply.. Tear gas unharness and Live streaming video exploitation digital camera square measure incorporated within the spectacles that act as a replacement weapon for good technology.

The Raspberry Pi may be a series of credit card–sized single-board computers developed within the uk by the Raspberry Pi Foundation with the intention of promoting the teaching of basic engineering science infaculties and developing countries. The Raspberry Pi a pair of is predicated on the Broadcom BCM2836 system on a chip (So C), which has associate ARM cortexv7 900mhz processor, Video Core IV GPU, and was originally shipped with 256 megabytes of RAM. As of eight June 2015, concerning 5 to 6 million Raspberry Pi’s are oversubscribed. A GSM electronic equipment could be a specialized kind of electronic equipment that accepts a SIM card, and operates over a subscription to a mobile operator, a bit like a transportable. From the mobile operator perspective, a GSM electronic equipment appearance a bit like a transportable. Once a GSM electronic equipment is connected to a pc, this enables the pc to use the GSM electronic equipment to speak over the mobile network. Whereas these GSM modems square measure most often won’t to give mobile net property, several of them can even be used for causation and receiving SMS and MMS messages. Mobile services supported GSM technology were 1st launched in Republic of Finland in 1991. The SIM900A could be a complete Dual-band GSM/GPRS module in an exceedingly SMT kind that is meant particularly for Chinese market, permitting you to learn from tiny dimensions and efficient solutions. Featuring AN industry-standard interface, the SIM900A delivers GSM/GPRS 900/1800MHz performance for voice, SMS, Data, and Fax in an exceedingly tiny type issue and with low power consumption. With a small configuration of 24mm x 24mm x three millimeter, SIM900A will match most the house needs in your applications,
particularly for slender and compact demand of style. GPS Receiver developed by U.S.A. department of defense (DOD). The GPS signal is applied to the antenna input of module, and an entire serial information message with position, rate and time info is bestowed at the serial interface. This date, time, longitude, latitude, altitude, speed, and travel direction among alternative information, square measure provided by the module and might be employed in a several applications together with navigation, fleet management, following systems, mapping and AI. The module will support up to fifty one channels. The GPS answer allows little type issue devices that deliver major advancements in GPS performances, accuracy, integration, computing power and suppleness. They’re wont to alter the embedded system integration method. By wifi the Live streaming video will be recorded by digital camera

3. RESULT
When the pressure switch is ironed, the buzzer activates. Spectacles square measure employed by the victim, on right aspect of the specs the tear gas are going to be sprayed on the wrongdoer eyes to hurt the wrongdoer physically and on different aspect, the camera is mounted to see the live streaming video. In Parallel, the placement alongside the messages is shipped to emergency contacts. The received persons open the informatics that is mounted to the emergency contacts to look at the live video, in order that this may be useful to urge the correct justice for the victim.

4. CONCLUSIONS
The article presents designing about the critical issues faced by women at present days and will help to solve them technologically with compact equipment and ideas. Using wrist band and spectacles, the mechanisms like tear gas release, screaming alarms, live streaming video and also alerting the emergency contacts by sending the messages with the location. This system can overcome the fear that scares every woman in the country about her safety and security.

REFERENCES


