



Women security system with location tracking and instant messaging

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Abstract—The world is becoming so unsafe for women in all fields. The crimes against women are increasing day by day. This system provides the quick response that helps women in any emergency. When someone is going to harass, she can press the switch located on the device. By this system the location information is sent via sms alert to the some predefined numbers. Thus the women can feel safe as well as protected.

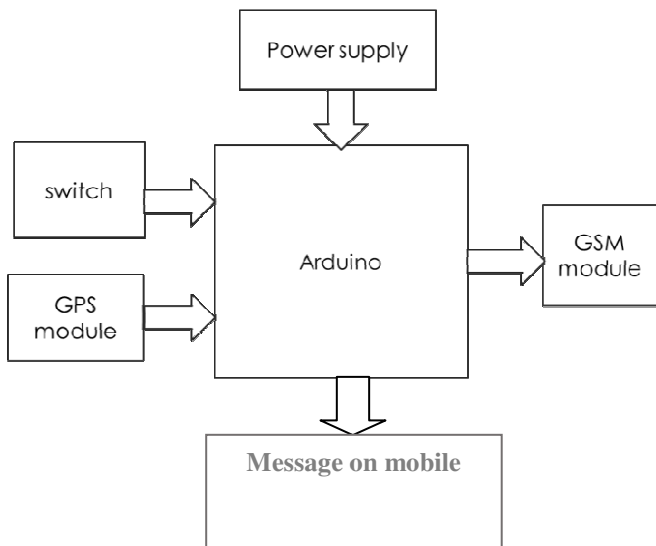
Keywords—Arduino Uno, ATmega328P, GSM, GPS, GSM Antenna, SIM card.

I. INTRODUCTION

In this modern world women are feeling unsafe to step out of their house due to higher rate of crimes like harassment, violence etc. This system will provide the security and safety for women and it is convenient to carry. She can put the device in jacket or purse. The main aim of this device is to inform the parents as well as police about the current location of the victim. The switch is provided which a women can press in any emergency. The GPS will trace the current exact location and the message is sent via GSM to the registered numbers.

II. PROPOSED SYSTEM

The main aim of this system is to provide security for all working and non-working women. In this system the security of women can be done via GSM and GPS. The GPS will trace the location in terms of latitude and longitude coordinates and with the help of GSM we can send the message to the numbers which are already saved in SIM. The entire control is done with Arduino Uno. In addition to this one power switch and one emergency switch is provided. When we press the power switch then at that time Arduino reset circuit starts working. As soon as the emergency switch is pressed the GPS traces the location of victim and with the help of GSM the message is sent to the registered mobile numbers. The modification of this system Emergency key is also there whenever women feels she is in danger at that time she presses emergency key then the message is sent to the predefined numbers.



Arduino Uno , GSM SIM 300 , GPS ,GSM antenna, power switch and emergency switch are the hardware components of system. The receiver pin of GSM is connected to the transmitter of Arduino. The transmitter pin of GPS is connected to the receiver of Arduino. Arduino sends data to the GSM. The GPS reads the information and traces the location. As soon as the location is traced the message is send to the registered mobile numbers via GSM mode.

III . RESULT

As soon as the emergency key is pressed the location information is traced via GPS and message send to the registered numbers via GSM.

REFERENCES

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