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# WE SAFE: WOMAN SAFETY TRACKER PIN

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## ABSTRACT

In our country, even though it has super power and an economic development, but still there are many crimes against women. So women safety is a very important issue due to the rising crimes on these days. The atrocities against women can be brought to an end with the help of our product. This device is a wearable security system, specially designed for women in distress. The objective of the our device is to ensure women safety through safety pins. In our WE-SAFE pin, main features are camera,sensor,GPS Tracker, alarm system and an implantable microchip to inject the body of the offender. Camera are used to record and capture what are seeing in front of the user. Pin camera starts when the user press a button near to it. The dominant feature of our product is microchip injection to the body for tracking the opposed person. That chip is embedded inside the place below the sharp edge of the pin. The user can inject the microchip into the offender's body by pushes a knob. Even if the accused escaped, we can easily track him by the GPS tracker inside the chip. Apart from that a self GPS is also there in the pin. If we press a button, an alarm system will also work or either a call is triggered using an app.

**KEYWORDS**: Implantable Microchip, GPS, Sensor

## 1. INTRODUCTION

The world is becoming unsafe for women in all aspects. The crimes against women are increasing at a higher rate. The employed women are feeling unsafe due to increasing crimes. This paper proposes a quick responding mechanism that helps women during trouble. When someone is going to harass, she can press the button that is attached to the alarm and the location information is sent as an SMS alert to few per defined emergency numbers in terms of latitude and longitude. The program is developed in embedded language to demonstrate the system capability in providing real time response. Thus the girl can be safe and she can feel protected. If we are to fight discrimination and injustice against women we must start from the home, for if a women cannot be safe in her own house then she cannot be expected to feel safe anywhere. A recent article in India claimed that India is the fourth most dangerous place for women's to take public transport and the second worst for safety while traveling at night. It is an unfortunate observation that there has been a substantial increase in crimes against women in the past decade. With a variety of software applications now in action, to help women, the statistics have not lowered. According to the National Crime Records Bureau in India, 93 women were raped every day in the year 2014.Also 3,37,922 cases of crime against women were reported in year 2014 alone. The current practices in female security broadly fall into different categories ranging from android applications developed for mobile phones, and extend to fashionable apparels that can be wore and carried in day to day life.

## 2. MATERIALS AND METHODS

Our proposed system is implemented as a wearable security belt. It includes mainly two disticnt features.The one which describes the hardware kit connected to an app and an implantable microbiochip. When a women is in trouble,the hardware facility can be used for her safety.In the hardware kit implementation, when she press a switch ,the camera will be ON and a buzzer sound is produced and the accused could be panic.The image of the accused captured through the camera is send to the registetred mail and also a SMS is sent along with the alert

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message and GPS location.Hardware kit will connect to the app by providing the service of GPS placed inside it. By redirecting to app created an account. App will include the option of Location trace and Camera settings. Emergency contact number can be added ; call or a message will be send to the emergency contact.Another aspect is regarding an implantable microbiochip along with the sedation medicine alprazolam solution, which is injected to the accused if there is a lack of hardware and the app we are implemented . It is an interesting alteranative.It is attached along with the security belt. In case the accused may escape the GPS inside the chip can track the location.

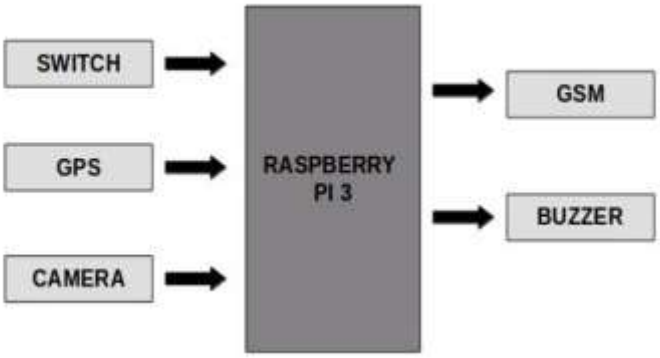


Fig : Hardware Kit Implementation

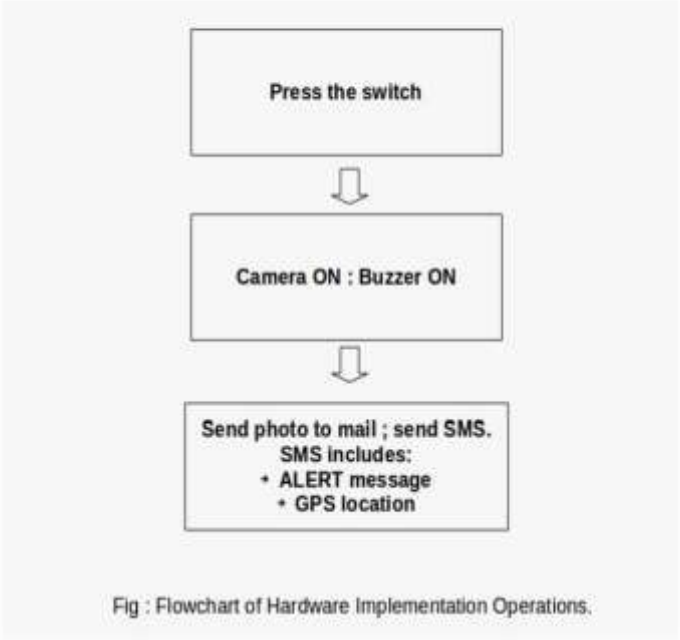


Fig : Flowchart of Hardware Implementation Operations.

***Fig 1: Flowchart of hardware implementation operations***

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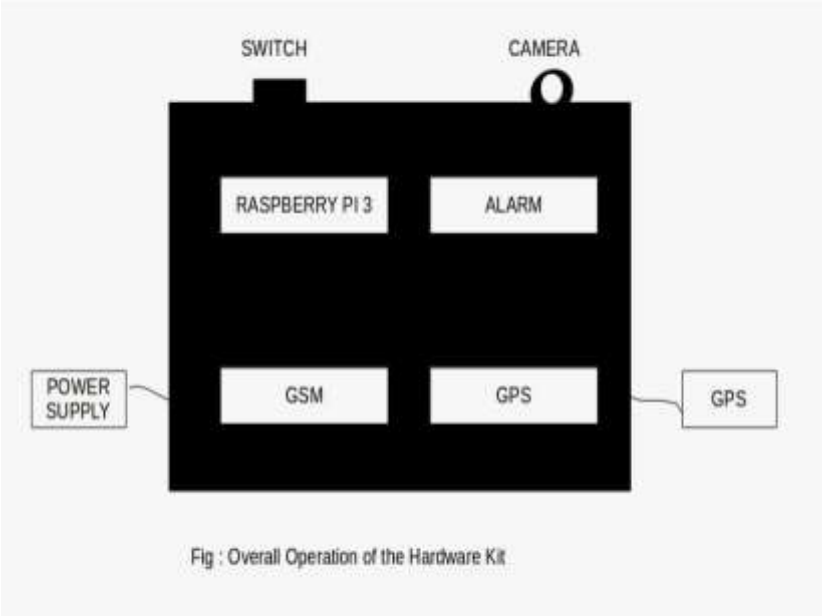
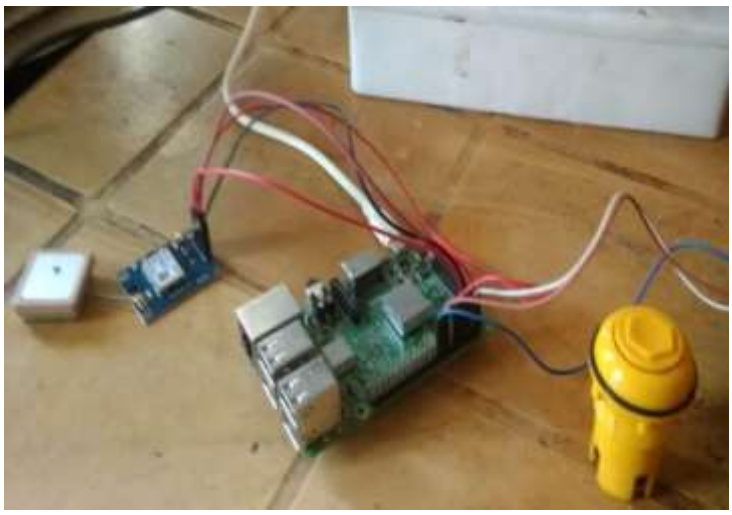



***Fig 2: Overall Operation of the Hardware Kit***

## 3. RESULTS AND DISCUSSION

The implementation process mainly includes as follows:



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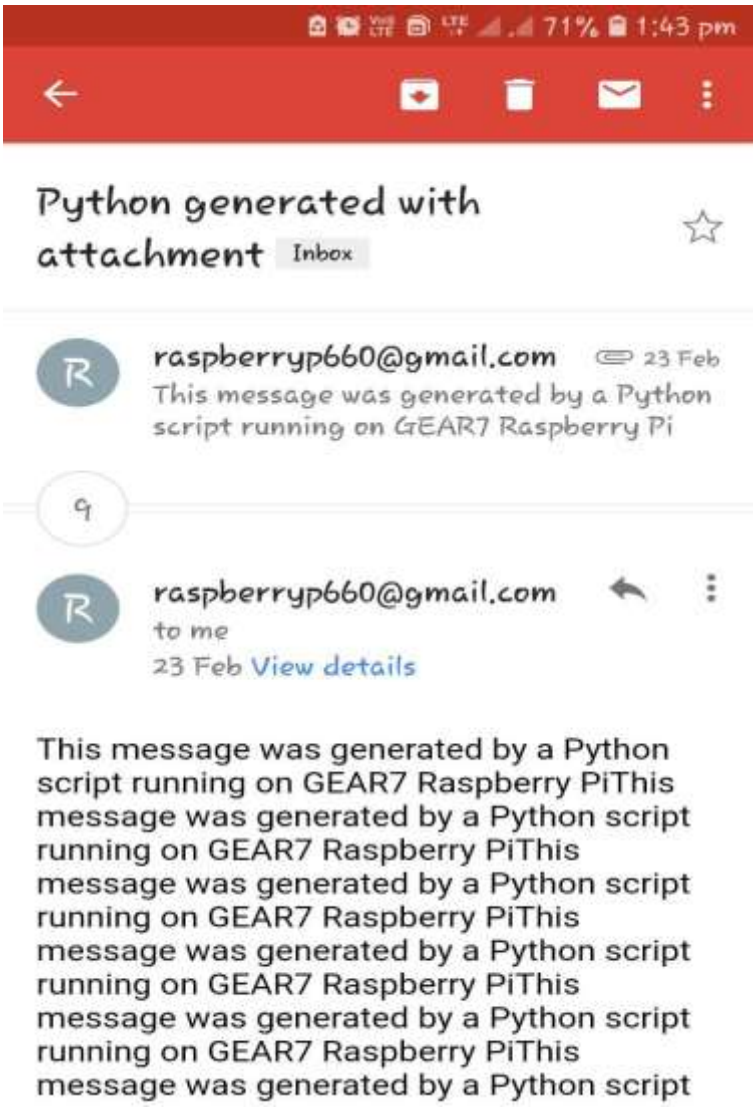
SCREENSHOTS



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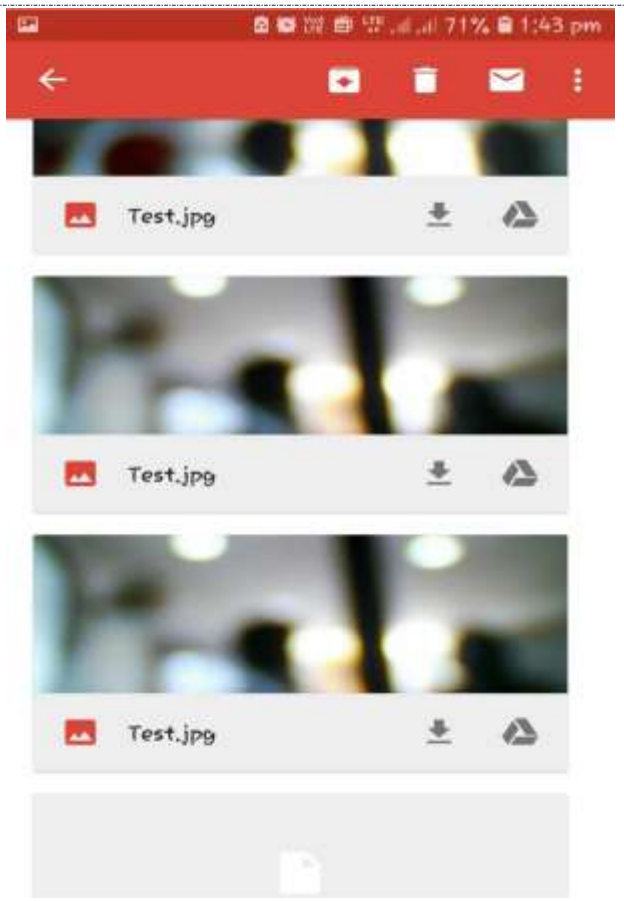


## 4. CONCLUSION

Unfortunately the safety of women is in doubt and security is not concerned. Many headlines still coming across against women indicates that increasing trends of such sexual assault, rapes still happening in today's generation. Around 80 percent of women are losing confidence and have fear towards the realization of freedom. So we are trying to contribute little efforts towards women which will ensure the safety and respect for women so that she can also have rights to grow equally like men. This device is very much helpful for anyone. This will help to provide protection through safety pins by either tracking the offender through the implantable biochip or wifi module provided in the GPS tracker can be redirected to an app. In that app we can control the camera enclosed in pin. Here the user can take precautions before coming to the actual danger.

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