# Women Safety Device

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**Abstract -**

Women's safety has been highlighted as one of the major concerns of any society where several women are dealing with various safety issues like harassment, rape, molestation, and domestic violence due to different social or cultural reasons. Internet of Things (IoT) is becoming a promising technology to support day-to-day concerns and provide support in handling various affairs. Many IoT-based devices have been introduced by the community to help women deal with their potential safety threats. This study presents a systematic literature review of research studies exhibiting the IoT devicesfor women's safety, the main features these devices offer as well as the wearable, sensors used.

***Key Words*:** Women safety, GPS, GSM, Push Button.

## 1.INTRODUCTION

Women are the most important part of a country and safety of women is our priority. The only solution to make women safe that is women should be assigned with the safety device that is portable and ensures her safety. Our project focuses on improving women safety and also helps in self-defense. On successful implementation of our project, help can arrive quickly to the women in danger thereby reducing threat. Our motive of providing safety and defense edge to the women will be accomplished with the help of technology and contribute to major society problem faced by women.

## 2. LITERATURE SERVEY

| Title of paper | Author Name | Year | inference |
|---|---|---|---|
| Women's Wearable security and safety device | S. K Anisha, S. Chandana, J.J Teresa, S.Varma, M.N Thippeswamy | November 2020. | This is the safety device which uses GPS module and pi camera. The camera captures the images and uploads to a drive which will be helpful for facial recognition |
| Woman Safety and Alert System | Snehal Bhagwat, Meenakshi Funde, Ravindra Sona wane Shalaka Deore, Shubhangi Ingale | May 2021. | In this paper an alternative method is proposed for women security that may serve as a better alternative to rest of the available security methods. Here the system is |

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|---|---|---|---|
| | | | designed around Arduino micro-controller that uses GPS, GSM, watch, shockwave generation circuit and an accelerometer for better security |
| Hiding Security System for Alone Women by Using GSM and GPS | K. Tirupathaiah, P. Vyshnavi, M, M. Bhavani, S. Ajay Kumar, Mahesh Kumar, Juni Khayat | July 2020. | The emergency push button is held to one of the buttons of the jacket. The main purpose of this device is to intimate the parents and police about the current location of the women. A GPS system is used to trace the current position of the victim and a GSM modem is used to send the message to the predefined numbers. This |
| | | | model is also useful for small children's, elderly aged people |
| Women Safety Device with GPS Tracking and Alerts Using Arduino | J. Sriram Pavan, Ch. Usha, Y. Lahari, U. Manisha, S. Navya Sri | March 2016. | The system can be interconnected with the alarm system and alert the neighbours. This detection and messaging system is composed of a GPS receiver, ARDUINO and a GSM Modem. GPS Receiver gets the location information from satellites in the form of latitude and longitude. |

## 3.BLOCK DIAGRAM

The system design comprises of Power Supply, Arduino Nano Board, GSM Sim800l Module, GPS Module, Push Button, LCD Display, and Buzzer.

In the proposed system we here designed equipment for alerting the system. In this project we here used the Arduino controller for the controlling the whole process of the system. The GSM is used to send SMS regarding GPS locations. LCD is for displaying and switch is

pressed when the person is in danger. Here we are adding Buzzer Laser Diode which will activate when the women press the switch.

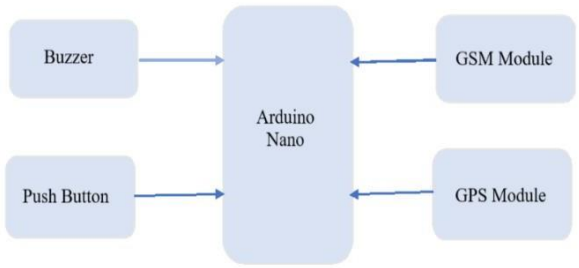


**Fig -1**: Figure

## 4. CIRCUIT DIAGRAM

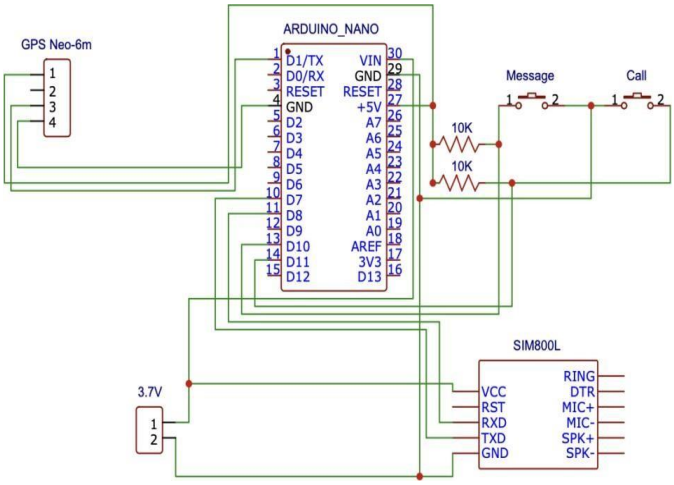


**Fig -2**: Figure

## 5. CONCLUSION

Our project focuses on improving women safety and also helps in self-defense. On successful implementation of our project, help can arrive quickly to the women in danger thereby reducing threat. Using defense mechanism, we enable women to tackle threat until the help arrives. Hence our motive of providing safety and defense edge to the women will be accomplished with the help of technology and contribute to major society problem faced by women.

## 6. REFERENCES

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