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Smart Safty Device for Women

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***Abstract:** Women safety is a very big issue even in this modern world running with advanced technologies. After a history of times, women got a freedom of equality at the workplace, asset rights, family law, and education. During the lonely travelling on roads, picnic spots, work and deserted places. So we are developing a device for woman safety. This will provide you with the location of your woman when she's traveling but this device provides few features in our device includes more features like an alarm, tracking location, and sending the message to their family and police control room. Smart safety device for women This is currently in place, however given the current state of the world, women still have a lot of security-related difficulties to cope with, some aspects in this system are covered in this proposed system. The design comprises of fingerprint scanner to activate the device, GSM (Global System for Mobile Communications) module for sending alert messages, buzzer for alerting the environment and shock wave generator for self-defence.*

***Keywords:** Tracker;safety;buzzer; alarm;message;fingerprint;*

1. INTRODUCTION

Smart safety device for women this is currently in place, however given the current state of the world, women still have a lot of security-related difficulties to cope with, some aspects in this system are covered in this proposed system. Her worries increase whenever she travels or simply walks by herself down the road. Everybody wants their girls to get home safely.GPS-enabled women's safety device with notification .This will let you know where woman is travels, but it only has a few of the functions that our device has, such as an alert, position tracking, and the ability to send messages to the victim's family ones and the police control centre. You will know where your girl is when she travels thanks to this. Additionally, when outside, women can text their relatives with their location to prevent any accident. This tool is quite effective at reducing incidents of women being harassed. After a 1-minute wait, the device's fingerprint sensor feature continues to collect fingerprints to let the system know she is fine. One of the best GPS Tracker projects is this one.

Before turning on the device, women should authenticate themselves using their cell device. The device combines a fingerprint reader, a visual display, GPS, and an alarm buzzer. An SMS will be sent to the authorised person with location information, and the bell will start to alert individuals in the area.

2. PROPOSED METHODOLOGY
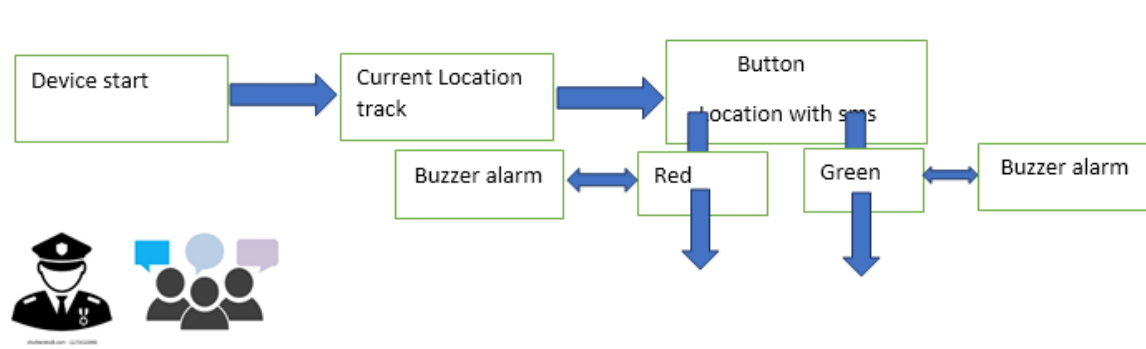
Block diagram

Figure 1- Block diagram for proposed system

The proposed women safety device provides assistance to a woman who might be in an unsafe situation. The device is essentially ready for all the situations that might go against the will of the woman. diagram shows the hardware design of the safety device. The design comprises of fingerprint scanner to activate the device, GSM (Global System for Mobile Communications) module for sending alert messages, buzzer for alerting the environment and shock wave generator for self defence. It also displays themessage.

It is an all-in-one system. Hence no need to carry multiple devices.GPS tracking feature tracks the user lively when you are the move triggering the emergency button. It records audio, which can be used for further investigations.When the battery is running low, it automatically sends the location the pre-stored contacts.The second distinct feature is, it also detects the hidden cameras which help in our privacy.This is device works without internet connectivity

3. DISCUSSION

Every day, every woman, young girls and women from all walks of life are struggling to be safe and protect themselves from the roving gaze of the horribly insensitive men who molest assault and violate the dignity of women. The streets, public transport, public places in particular have become the dominion of the hunters. Due to these atrocities that women are subjected to in the present scenario, a wearable device for women based on Internet of Things is proposed. It is implemented in the form of a smart device and comprises of Tress location , buzzer and button with message to activate the services. This device is extremely portable and can be activated by the victim on being assaulted just by the click of button that will fetch her current location with SMS and buzzer alarm. The location and the link of the GPS Values will be sent to predefined emergency contact numbers or police via that smart safety device. So using this device it is possible about women security in the country. It is also now possible to intelligently apply the benefits of current technology to resolve societal issues. This paper, therefore, aims to apply the current trend in technology i.e., Internet of Things (IoT) to eliminate fear filled lifestyle of female folks. It refers to the evergrowing network of physical objects that feature an address for internet connectivity, and the communication that occurs between these objects and other Internet-enabled devices and systems. Using IOT, that device is in the form of bracelet or watch. This technology or technique about woman safety is very

useful or possible to reduce the harassment of woman. Women feel safety at the time of when she goes outside from home or whenever she is alone at anywhere.
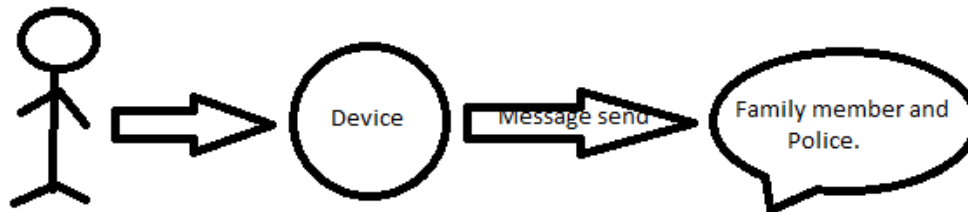

Figure 2- Working of system

4. CONCLUSION

The proposed woman safety equipment intends to give ladies total security in contemporary situations. In order to prevent false alarms from being raised and to guarantee that alerts are only made in emergency situations, the fingerprint is utilised as the user's unique identity. A buzzer is incorporated into the design to guarantee total security, alerting everyone around to the incident. Messaging makes sure that the victim's immediate family and the police are informed of their current whereabouts.

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