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Brief Review: Self Defense System for Women Safety with GSM Alert and GPS Tracking

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Abstract: In India, there are such huge numbers of instances of ladies indictment and attack. This paper reviews about the security framework for ladies which permit snappy reactions in any provocation in broad day light places. Another methodology is concocted to given the security of ladies as a wrist gadget. The goal of the gadget is to give security to ladies. In case of any emergency situations women will press an emergency button on the device which will activates the buzzer for alerting and GPS for location tracking and a message sent to the police and family members of women along with time.

Keywords: Women security, GPS location, Buzzer, GSM module, LCD Display.

I. INTRODUCTION

The Internet of things (IoT) might be a game-plan of interrelated taking care of gadgets, mechanical and motorized machines, vehicles, and different things installed with hardware, sensors, actuators, and system sort out which draw in these articles to gather and trade information. Everything is particularly identifiable through its installed PC framework yet is in a situation to between work inside the common Web foundation.

IoT is said with our work. We've utilized this innovation in our promotion with the end goal that how it helps the women or a lady while she is in a difficult situation.

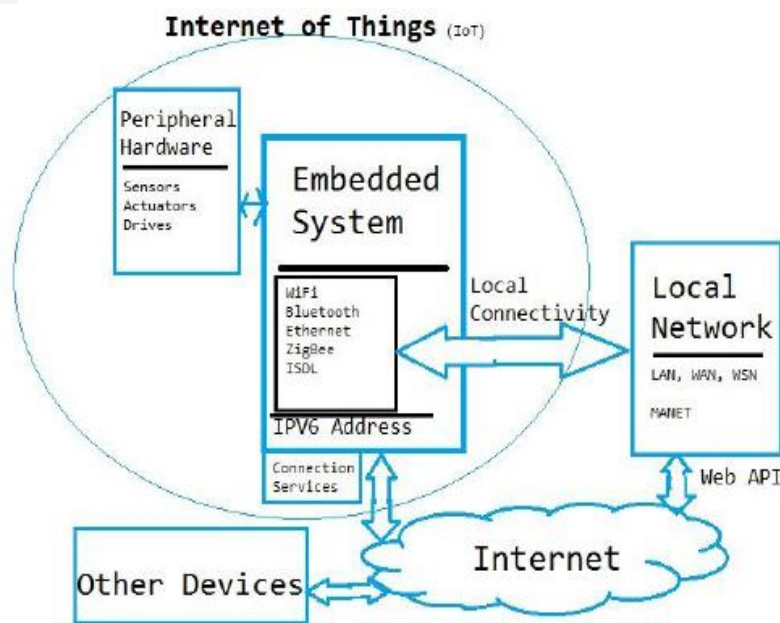


Fig. 1. IoT Architecture.

Now a day's harassments on women's is increasing day by day. Truth be told, there are at least five news stories that enlighten us regarding the awful subtleties of the differed violations. It's amazingly excruciating to watch the status of ladies' wellbeing in India, particularly during a nation where ladies are given the height of goddesses and inside the instance of where she can't take a PDA and dialup to police or different relations, so our proposition will be impressively valuable in such cases in advising about assaults as well as in giving the specific area of the ladies to close by police central station for vital activities.

II. LITERATURE SURVEY

The writing study shows that there are numerous versatile applications that are utilized for young lady's well-being reason.

One late examination shows that there is a footwear chip which is bonded to the footwear that gets started when the individual taps one leg behind the other in any event on numerous occasions inside 5 seconds or one touch switch structure. Related to this unusual+ trip or drop of her pulse in like way seeing the open door as careful will be recognized and in this manner the estimations of the equivalent will be showed up on the "women security" reduced application which is made by them and introduced in her moved mobile. [4]

A gathering of understudies from SRM College of Chennai in India has run over with the chance of SHE – Society Tackling Gear. This apparatus is connected with pieces of clothing. It is inserted with sensors and electric stun circuit, which can deliver 3800kv which can assist the misfortune with escaping. In the event that there ought to be an event of different attacks it can course 80 electric stuns. [2]

ShaistaKhanam and Trupti Shah who structure a Self - Guard Gadget with special finger impression affirmation which on the unmistakable quality of an approved finger impression will create an electrical surprise at the tip of the gadget for a particular time of your time and this electric stun communicating with the resistance will flabbergast the constraint for few moments. At the point when an approved extraordinary finger impression is seen, an alarm message with the current region of a woman will be send to her shut ones all together that till the open door somebody approaches to manage help her, she will act normally masterminded to shield herself from the hazard. [3]

Sunil k Punjabi, who structure a transportable gadget which can have a weight switch. When an attacker is near assault the ladies/kidor once they detects any uncertainty from a more peculiar, at that point she will squeeze the gadget by pressing or compacting it. In a flash the weight sensor detects this weight and a standard SMS, with the casualty's area will be sent to their folks/gatekeepers phone numbers put away inside the gadget while buying it, trailed by a call. On the off chance that the choice is unanswered for an extended time, a call will be diverted to the police and in this way a similar message will be sent. [4]

D.G. Monisha, introduced a technique for the purpose of giving security for ladies. They utilized ARM controller and android application during which both the contraption and consequently the moved cell are coincide by utilizing Bluetooth; subsequently both are as often as possible actuated by self-governing. They will record sound for extra assessment and may give a caution call and message to the pre-set contacts with the subsequent territory and may be followed live using their application. Covered camera locator is an unmistakable part using which we may ensure our protection. [5]

R.Ramachandiran, L. Dhanya and M. Shashire views on ladies security gadgets utilizing IoT. They clarifies in their article that, in present day scenes ladies security is viewed as the serious issue in both urban and country zones. It hushes up hard to change the mentality of the whole society, however we can give a few security gadgets to the ladies who are confronting lewd behavior, corrosive assaults, attack. Numerous gadgets are accessible in showcase; be that as it may, it doesn't give a powerful arrangement. Master from different field found ladies' security gadget which works both physically and consequently. Also, their article analyzes different ladies wellbeing related methods and weaknesses and openings in ladies' security devices. [6]

A. Halen, who structure a savvy for ladies security. Despite the fact that the keen mobiles have expanded quickly, it is beyond the realm of imagination to expect to have the telephone constantly in our grasp to make a call or snap on it, so they presented another procedure by means of brilliant watches. Right when a women or child wearing this watch is introduced to sexual or unprotected attack, the sensor present in it perceives the heartbeat pace of a person which can be high right now by the discharge of epinephrine hormone from hpa pivot and gets activated, this may not just give an alert sound to the eye of close by individuals, it'll consequently make a call to our enlisted contact and further more to the close by police base camp through GPS/GSM and make a call them so it'll be useful for police to show up fast at the location by following the GPS, such a framework will cause more secure and safe atmosphere. [7]

Navya R Sogi has invented a Raspberry P-based ring for women's security [SMARISA]. This ring is based on IoT and it contains Raspberry Pi Zero, Raspberry Pi camera, ringer and catch. If she is in danger, with the help of the catch button, her current location can be traced and the offensive image is detected by the Raspberry Pi camera. And finally sends the trapped picture and current area of the casualty to a predefined contact or to the police number. [8]

Deepa Bura propose a philosophy which will predict safe course with the assistance of Google maps. Google maps are used to investigate to needed objective. Different associations are offered through Google Guide like research on criminologist, mapping application on web, facilitator, road see, and so on. The customers of net use Google Maps fundamentally for detection the courses between their individual origin and objective. In spite of the way that it gives the changed approaches to the customers between the

foreordained source and objective, yet various customers need the extra information related to the way to the extent security, peril, nature of way, etc. [9]

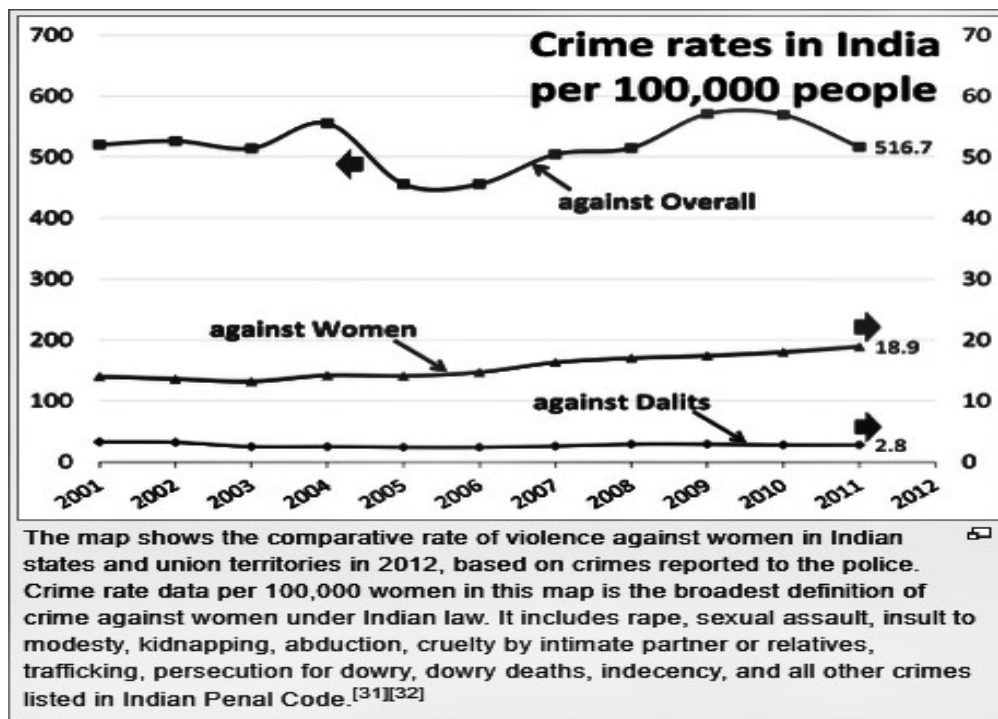


Fig. 2 Crime rates in India [2018][10]

III.CONCLUSION

This paper reviewing about the current wellbeing application for ladies and comes out with the thought for making safe condition for ladies in the general, public, and permits them to go anyplace dread free. Whats's more, it helps diminishing the rate against the women. Ringer will be utilized as caution to get sound in crisis circumstances. Information through GPS and GMS development is that the core to help the individual against the harassing.

REFERENCES

- [1] Sunil K Punjabi ;SuvarnaChaure ;UjjwalaRavale ;Deepti Reddy "Smart Intelligent System for Women and Child Security" 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference(IEMCON)
- [2] <http://www.technodiscoveries.com/technology/society-harnessingequipment-she-anti-rapeundergarments-by-indian-students.html>
- [3] ShaistaKhanam ; Trupti Shah "Self Defence Device with GSM alert and GPS tracking with fingerprint verification for women safety" 2019 3rd International conference on Electronics, Communication and Aerospace Technology(ICECA)
- [4] S. A. Bankar ; KedarBasatwar ; PritiDivekar ; Parbani Sinha ; Harsh Gupta "Foot Device for WomenSecurity" 2018 Second International Conference on Intelligent Computing and Control Systems(ICICCS)
- [5] D. G. MonishaI*, M. Monisha, G. Pavithra and R. Subhashini "Women Safety Device and Application-FEMME" Indian Journal of Science and Technology, Vol 9(10), DOI: 10.17485/ijst/2016/v9i10/88898, March 2016
- [6] R. Ramachandiran ; L. Dhanya ; M. Shalini"A Survey on Women Safety Device Using IoT" 2019 IEEE International Conference on System, Computation, Automation and Networking(ICSCAN)
- [7] A. Helen ; M. FathimaFathila ; R. Rijwana ; Kalaiselvi V.K.G. "A smart watch for womensecurity based on iot concept ['watch me']" 2017 2nd International Conference on Computing and Communications Technologies(ICCCT)
- [8] Navya R Sogi ;Priya Chatterjee ;U Nethra ; V Suma"SMARISA: A Raspberry Pi Based Smart Ring for WomenSafety Using IoT" 2018 International Conference on Inventive Research in Computing Applications(ICIRCA)
- [9] Deepa Bura ; Meeta Singh ; Poonam Nandal"Predicting Secure and Safe Route for Women using Google Maps" 2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COMITCon)
- [10] https://en.wikipedia.org/wiki/Violence_against_women_in_India



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