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Creating a Smart Safety Device for Women using IoT

Dr. Gholap P. S.[1], Saurabh Pansare[2], Shrikant Khote[3], Rushikesh Ambalkar[4], Vedant Nalawade[5]
Department of Computer Engineering[1,2,3,4,5]
Sharadchandra Pawar College of Engineering, Dumbarwadi, Otur, India

Abstract: *Would it be moral if I said that even in today's 2020, women in our society cannot live independently? Every day there is a lot of news of physical violence, rape and violence against women, and this number is increasing, especially in big cities. The presence of CCTV helped to some extent but the suspect could not be identified at the time of the attack. The aim of this article is to enable women to use technology to become self-sufficient, thereby reducing crimes against women and girls in India. The application proposal reveals a practical, effective and portable product that can help women live safe, independent lives. The goal of the Internet of Things is to integrate everything we have created and implemented with SIM 800 GSM modules, force sensitive resistors, impact sensors, Bluetooth modules, LCDs, resistors, transistors, diodes, LEDs, Arduino UNO, buzzer, etc., PCB, breadboard, transformer, switch, Arduino compiler and Neo6mv2 GPS module. The proposed system has dual security where a sick woman can seek help and share her location through the emergency number. It can activate the system in three different modes depending on the situation required, and sometimes it seems to appear at strange or bad times. The victim can activate the device using the alarm button or Bluetooth module. The internal heart rate sensor, GPS module and GSM module will be automatically activated when the device is turned on. The device will constantly beep so neighbors know what's going on, police said. The device is equipped with a force-sensitive resistor to protect the device from any external force during any misbehavior or misuse. In the age of pepper spray and smart bracelets, such tools have become powerful and effective in separating women's lives from bad behavior.*

Keywords: Women Safety Device; IoT; Beat sensor,A9G board, Ladies Security, GPS module, GSM module, Drive resistive sensor

REFERENCES

[1] Empowering Women's Safety with smart IoT Technology: A Robust Protection System N.V.K. Ramesh Akhila Alaparthi,G Sai Charan,RishithaSettipalli,Pranathi Velga, B. VeenaVani.(2023) .
[2] G. Gulati, T. K. Anand, T. S. Anand, and S. Singh, ''Modern era and security of women An intellectual device,'' Int. Res. J. Eng. Technol. (IRJET), vol. 7, no. 4, pp. 212–218, 2020.
[3] K. M. Opika and C. M. S. Rao, ''An evolution of women safety system: A literature review,'' Int. Bilingual Peer Reviewed Peered Res. J., vol. 10, no. 40, pp. 61–64, 2020.
[4] Touchless Heart Rate Prediction With The Help Of Facial Expression Using Image Processing Trupti Ghegade1*, Dr. m. d. Rokade2 ,Dr. Sunil S. Khatal.
[5] W. Akram, M. Jain, and C. S. Hemalatha, ''Design of a smart safety device for women using IoT,'' Proc. Comput. Sci., vol. 165, pp. 656–662, Jan. 2019.
[6] B. R. Reddy, T. Sowjanya, N. B. Subrahmanayam, G. Mahantesh, and S. Prudhvi, ''IOT based smart protective equipment for women,'' Mater. Today, Proc., vol. 80, pp. 2895–2900, 2023 .
[7] S. Mohapatra, C. Ramya, N. G. Sahana, V. Savithri, and S. Yashaswini, ''A smart wome protection system using IoT,'' in Data Intelligence and Cognitive Informatics. Singapore: Springer, 2022.
[8] A. Bhate and S. H. Parveen, ''Smart wrist band for women security using logistic regression technique,'' Int. J. Recent Technol. Eng., vol. 8, no. 1, pp. 2215–2218, 2019.

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[9] D. K. M. AnandKumar, ‘‘Smart garb—A wearable safety device for women,’’ Int. J. Res. Appl. Sci., Eng. Technol., vol. 8, no. 5, pp. 513–519, May 202