

IoT Based Child Safety Gadget for Monitoring and Notification

LITERATURE SURVEY

The system is developed using Link-It ONE board programmed in embedded C and interfaced with temperature, heartbeat, touch sensors and also GPS, GSM & digital camera modules. The novelty of the work is that the system automatically alerts the parent/caretaker by sending SMS, when immediate attention is required for the child during emergency. Merits: The parameters such as touch, temperature & heartbeat of the child are used for parametric analysis and results are plotted for the same. The purpose of this device is to help the parents to locate their children with ease. At the moment there are many wearable's in the market which helps to track the daily activity of children and also helps to find the child using Wi-Fi and Bluetooth services present on the device. This paper provides an Android based solution for the parents to track their children in real time. Different devices are connected with a single device through channels of internet. The concerned device is connected to server via internet. The device can be used by parents to track their children in real time or for women safety. The proposed solution takes the location services provided by GSM module. It allows the parents to get their child's current-location via SMS. This wearable over other wearable is that it can be used in any phone and it is not necessary that an expensive smartphone is required and doesn't want to be very tech savvy individual to operate. A child tracking system using android terminal and hoc networks. This device cannot be used in rural areas.

REFERENCE

- [1] M Nandini Priyanka, S Murugan, K. N. H. Srinivas, T. D. S. Sarveswararao, E. Kusuma Kumari, 'Smart IoT Device for Child Safety and Tracking' International Journal of Innovative Technology and Exploring Engineering, Volume 8, Issue 8, June 2019.
- [2] Akash Moodbidri, Hamid Shahnasser (Jan. 2017) 'Child safety wearable device', International Journal for Research in Applied Science & Engineering Technology, Vol. 6 Issue 2, pp. 438-444.
- [3] Aditi Gupta, Vibhor Harit, 'Child Safety & Tracking Management System by using GPS, Geo-Fencing & Android Application: An Analysis,' 2016 Second International Conference on Computational Intelligence & Communication Technology.
- [4] Dheeraj Sunehera, Pottabhatini Laxmi Priya, 'Children Location Monitoring on Google Maps Using GPS and GSM,' 2016 IEEE 6th International Conference on Advanced Computing.
- [5] Asmita Pawar, Pratiksha Sagare, Tejal Sasane, Kiran Shinde (March– 2017) 'Smart security solution for women and children safety based on GPS using IoT', International Journal of Recent Innovation in Engineering and Research, vol. 2, Issue 3, pp. 85-94.
- [6] Nitishree, (May-June, 2016) 'A Review on IOT Based Smart GPS Device for Child and Women Safety', International Journal of Engineering Research and General Science, Vol. 4, Issue 3, pp. 159-164.
- [7] Pramod, M Uday Bhaskar, Ch. V and Shikha, K. (January 2018) 'IoT wearable device for the safety and security of women and girl' International Journal of Mechanical Engineering and Technology, Vol. 9, Issue 1, pp. 83-88.