IoT Based Senior Citizen Monitoring

Siva Rohith K[1], Mrs. S. Shenbagavadivu[2], Jeeva D[3], Karthick P[4], Manoj A[5]

UG Student, Department of Information Technology[1,3,4,5]

Assistant Professor(Se L. G), Department of Information Technology[2]

SRM Valliammai Engineering College, Chennai, India

Abstract: *Monitoring numerous medical indicators and post-operative data is crucial. The use of internet of things (IoT) technology in healthcare communication to obtain patient medical parameters in nearby and remote locations has been modified. This project's primary goal is to wirelessly communicate the patient's health monitoring parameters. These input data are uploaded to a cloud server and sent to a computer and a mobile device for the benefit of family and doctors. The internet of things has emerged because of improvements in information and communication technology (iot). Since they are used in a variety of medical fields (including monitoring in real time, patient information management, and healthcare administration), iot technologies are convenient for doctors and patients in the contemporary healthcare setting. The network of bodily sensors.*

Keywords: Sensors, node MCU, Arduino, Ubidots, IOT Technology

REFERENCES

[1] Darshan K R, Ananda Kumar K R-"A Comprehensive Review on Usage of Internet of Things (IoT) in Healthcare System" Department of Computer Science & Engineering, SJBIT, Bengaluru .Visvesvaraya Technological University, Belagavi Karnataka, India.

[2] Ngo Manh Khoi, Saguna Saguna, Karan Mitra and Christer A° hlund- "System for IReHMo: An Efficient IoT-Based Remote Health Monitoring Smart Regions" Lule°a University of Technology Skellefte°a , Sweden©2015 IEEE .

[3] Punit Gupta1, Deepika Agrawal2, Jasmeet Chhabra3, Pulkit Kumar Dhir4- " IoT based Smart HealthCare Kit" Jaypee University of Information Technology .Himachal Pradesh, India©2016 .

[4] Juha Petäjäjärvi, Konstantin Mikhaylov, Matti Hämäläinen, Jari Iinatti-" Evaluation of LoRa LPWAN Technology for Remote Health and Wellbeing Monitoring" Centre for Wireless Communications Department of Communications Engineering, University of Oulu, Finland.

[5] J. Hernandez, D. McDuff and R. W. Picard, "Bio watch: Estimation of heart and breathing rates from wrist motions," Pervasive Computing Technologies for Healthcare (Pervasive Health), 2015 9th International Conference on, Istanbul, 2015.

[6] S. Fallet and J. M. Vesin, "Adaptive frequency tracking for robust heart rate estimation using wrist-type photoplethysmographic signals during physical exercise," 2015 Computing in Cardiology Conference (CinC).

[7] A. Holzinger et al., "Perceived usefulness among elderly people: Experiences and lessons learned during the evaluation of a wrist device," 2010 4th International Conference on Pervasive Computing Technologies for Healthcare, Munich, 2010.

[8] V. M. Rohokale, N. R. Prasad and R. Prasad "A Cooperative Internet of Things (IoT) for Rural Healthcare Monitoring and Control." in Proc. 2011 2nd Int. Conf. Wireless Communication, Vehicular Technology, Information Theory and Aerospace and Electronic Systems Technology, Chennai, 2011.

[9] Joshi, G. P., Acharya, S., Kim, C. S., Kim, B. S., & Kim, S. W. (2014). Smart Solutions in Elderly Care Facilities with RFID System and Its Integration with Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014.

[10] S. D. Bersch, C. M. J. Chislett, D. Azzi, R. Khusainov and J. S. Briggs, "Activity detection using frequency analysis and off-the-shelf devices: Fall detection from accelerometer data," 2011 5th International Conference

Copyright to IJARSCT
www.ijarsct.co.in

DOI: 10.48175/IJARSCT-9409

ISSN
2581-9429
IJARSCT

249

on Pervasive Computing Technologies for Healthcare (PervasiveHealth) and Workshops, Dublin, 2011, pp. 362- 365.