IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 15, May 2023

A New Approach of Novel Analysis of IOT in Waste Management Scheme

Deepak Kumar¹, Nikhil Sharma², Vineet Saini³, Absar Alam⁴

Assistant Professor, ECE Department¹ Students, ECE Department^{2,3,4} Raj Kumar Goel Institute of Technology, Ghaziabad, U.P., India

Abstract: Waste management in India has recently become a topic of discussion that permeates most industrial cities and rural areas. The provision of bins by waste management agencies in terms of their perspectives is a solution to the problems of the current disposal system. Not enough. This paper presents a proposed method using multiple solutions to address the problem of runoff and inefficient collection schemes. The system provides a monitoring platform for waste management agencies to process alarm records by creating garbage collector/driver orders that can be accessed via a mobile application system. The proposed system includes intelligent A trash can is included. Once the workload is full, a work order is created that can be received by drivers and routing systems, and the status of bins distributed to specific regions is assessed over the driver's phone. The system implant works fine and can monitor the status of the waste container in real time, but the latency was sometimes high as it mainly uses the GSM module for GSM/GPRS connectivity..

Keywords: Waste management.

REFERENCES

M. A. Al Mamun, M. A. Hannan, and A. Hussain, "Real time solid waste bin monitoring system framework using wireless sensor network," 13th Int. Conf. Electron. Information, Communication. ICEIC 2014 - Proc., pp. 1–2, 2014.
A. F. Thermann, A. H. Afelavar, and F. O. Ibidurmann, "Amplication of accorrelation information system to aclid."

[2] A. F. Thompson, A. H. Afolayan, and E. O. Ibidunmoye, "Application of geographic information system to solid waste management," 2013 Pan African Int. Conf. Inf. Sci. Comput. Telecommunication . PACT 2013, pp. 206–211, 2013.

[3] A. S. Wijaya, Z. Zainuddin, and M. Niswar, "Design a smart waste bin for smart waste management," Proc. 2017 5th Int. Conf. Instrumentation, Control. Autom. ICA 2017, pp. 62–66, 2017.

[4] T. P. Fei et al., "SWM: Smart waste management for green environment," 6th ICT Int. Student Proj. Conf. Elev. Community Through ICT, ICT-ISPC 2017, vol. 2017-January, pp. 1–5, 2017.

[5] S. S. Chaudhari and V. Y. Bhole, "Solid Waste Collection as a Service using IoT-Solution for Smart Cities," 2018 Int. Conf. Smart City Emerg. Technol. ICSCET 2018, pp. 1–5, 2018.

[6] S. Aleyadeh and A. E. M. Taha, "An IoT-Based architecture for waste management," 2018 IEEE Int. Conf. Commun. Work. ICC Work. 2018 - Proc., pp. 1–4, 2018.

[7] M. Adam, M. E. Okasha, O. M. Tawfeeq, M. A. Margan, and B. Nasreldeen, "Waste Management System Using IoT," 2018 Int. Conf. Comput. Control. Electr. Electron. Eng. ICCCEEE 2018, pp. 1–4, 2018.

[8] H. Poddar, R. Paul, S. Mukherjee, and B. Bhattacharyya, "Design of smart bin for smarter cities," 2017 Innov. Power Adv. Comput. Technol. i-PACT 2017, vol. 2017-January, pp. 1–6, 2018.

[9] A. M. Furqan Durrani, A. U. Rehman, A. Farooq, J. A. Meo, and M. T. Sadiq, "An automated waste control management system (AWCMS) by using Arduino," 2019 In

DOI: 10.48175/IJARSCT-10902

