

Smart Waste Management System For Metropolitan Cities

LITERATURE SURVEY

The municipal corporation's community garbage cans are causing a slew of health, environmental, and social problems. This might be due to a variety of factors, including inadequate planning. The positioning of dustbins across the city, as well as the collection method, are both troublesome waste created by the municipal corporation, as well as citizens who are unaware of how to properly utilise dustbins. Various major concerns, such as filthy environments, air pollution, and unhealthy lifestyles, are producing significant problems. The environment is harming people's health. One application displays the status of the garbage can, while another displays the status of the recycling bin. Garbage pickup vehicles can get to their destination faster if they use the shortest path approach. There is no active system that integrates RFID, GSM, and GIS technologies.

S.No	Year	Author	Title	Methodology
1.	2019	W. A. L. Gayanthika, G. K. C. D. Maduranga, A. I. S. Silva, S. D. H. S. Wikramaratne, R. M. I. S. Ranasinghe	Efficient Waste with an Intelligent Trash Can	Use of RFID tag to validate the ID of the user and open the lid of the dustbin. If indeed the trashcan is overflowing, send an sms to the administration.
2.	2016	Meghana K C and K R Nataraj	Automated Garbage building Green Infrastructure iot	Used IR sensor to sense the garbage level when it reaches the threshold. Location of the bin, date and current time are obtained.
3.	2015	Suyog Gupta and Dr. Pradeep Kumar	A Case Study of Kanpur City's IOT-Based Intelligent Bin for Smart Cities Real-Time Planning and Forecasting Strategy for Trash	Used RFID systems along with GSM networks to collect data and generate reports about solid waste collection.
4.	2020	Ms. Akhila Joseph, Ms. Anjali, Ms. Suhaila B.M and Mr. Mahesh B.L	Implementing Intelligent Bins in Transport Systems	The refuse collectors were fixed along an ultrasonic sensor that collected garbage level data and uploaded it to the main server.
5.	2015	Narayan Sharma, Nirman Singha and Tanmoy Dutta	Implementing Intelligent Bins in Transport Systems	Text messages indicating the levels were sent to the central office and the updated values of the dustbin level are taken to form the real time report.
6.	2013.	Lilliana Abarca Guerrero, Ger Maas, William Hogland	Municipalities in emerging economies have a number of sewerage difficulties.	Information was collected about the solid waste management system and segregation of waste
7.	2020	Telugu Maddileti , Harish Kurakula	Iot Based Smart Dustbin	Smart Dustbin was created using ultrasonic sensors, Arduino, NodeMCU that opens the lid, when a biological hand is found, and when garbage is detected and also sends the notification in the form of LED