LITERATURE SURVEY

Date	12.11.2022
Team ID	PNT2022TMID50056
Project Name	IOT based Smart Waste Management System for Metropolitan Cities
Maximum Marks	4 Marks

S. No	Year	Authors	Title	Methodology	Advantages	Disadvantages
1	2019	W.A.L. Gayanthika , G.K. C. D. Maduranga, A.I. S. Silva, S.D. H. S. Wikramarathne, 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 Trash can is overflowing, send an SMS to the administration.	The technology used here is both user-friendly and environmentally beneficial, as it runs entirely on solar energy.	Direct handling of overflowing waste exposes for health risk.
2	2016	Meghana K.C and Nataraj K. R	Automated Garbage building Green IOT	Used IR sensor to sense the garbage level when it reaches the threshold. Location of the bin, date and current time are obtained.	Low-Cost.	Encourage recycling-on-the-go.
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	Used RFID system along with the GSM networks to collect data and generate reports about solid waste collection.	No Water Bills	Drive down our carbon emissions.

			Forecasting Strategy for Trash			
4	2020	Ms. Akhila Joseph, Ms. Anjali, Ms. Suhaila B.M and Mr. Mahesh B.L	Producing Intelligent Bins in Transport Systems	The refuse collectors were fixed along an ultrasonic sensor that collected garbage level data and Uploaded it to themain server.	Reduction in stops and delays at intersections.	Garbage contaminates surface waters, which affects all ecosystems.
5	2015	Narayan Sharma, Nirman Singha and Tanmoy Dutta	Producing 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.	Keeps the environment clean and fresh.	Overflowing waste causes air pollution and respiratory diseases.
6	2013	Lilliana Abarca Guerrero, Ger Maas, William Hogland	Emerging economies have a Number, of sewerage difficulties.	Information was collected about the solid waste management system and segregation of waste	Reduces environmental pollution.	Bacteria, insects and vermin thrive from garbage.
7	2020	Telugu Maddileti and Harish Kurakula	IOT Based Smart Dustbin	Smart Dustbin was created using ultrasonic sensors, Arduino, Node MCU that opens the lid, when a biological hand is found, and when garbage is detected and also	To earn money.	Practices not done uniformly.

				sends the notification in the form of LED		
8	2015	K. Vidyasagar, M. Sumalatha, K. Swathi and M. Rambabu	Refuse Picking Robotics in an Environment Atmosphere using RFID Connection	A mobile robot was created using IR sensors, RFID Technology, to collect the waste materials from a particular table.	Creates employment.	Waste management can cause more problems.
9	2016	Vishesh Kumar Kurre	Internet - of - things Intelligent Trash Collection Container Defendant and the plaintiff Warning	Use Raspberry Pi, ARM Microcontroller to absorb content from trash bin, process the data and finally share mail/message with Municipal Corporation.	Practice is highly lucrative.	The resultant product as a short life.
10	2021	Srinivasan P, Thiyaneswan B, Jaya Priya P, Dharani B, and Kiruthiga V	Smarter Trash cans Leveraging WIFI	Such as a sensor and a node that senses and transmit the waste level in the trash can, and sent it onto such a webpage if the trash can is 70% full.	Saves the Earth and conserves energy.	Needs more Global Buy - in.