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LITERATURE SURVEY

SMART WASTE MANAGEMENT FOR METROPOLITAN CITIES

LITERATURE SURVEY ON SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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STATEMENT:

In the present scenario, we see the garbage bins being overloaded and all the garbage spills outs resulting in pollution. The detecting, monitoring and management of waste is one the primary problems of the present era.

A big challenge in the urban cities is solid waste management. The garbage collecting authority in traditional waste management system doesn't know about the level of garbage in dustbin, if the dust bins get full by garbage, then it gets overflowed as well as spelled out from the dustbin leading to unhygienic condition in cities.

People throw garbage on that dustbin which is already overflowed. Sometimes due to unclean garbage bins bad smell arises also toxic & unhygienic gases are produced which is way to support to Air pollution and other harmful diseases which are easily spreadable. It is very bad look of the city. Use of traditional system result in inefficient and time and money spending System.

Hence, we design a system based on IoT application for collecting garbage from particular area whose garbage bins are overflowing with prior concern. This method is advanced in which garbage management is automated. This project Garbage Monitoring system using IoT is a very innovative system which will help to keep the cities clean.

Existing Solution:

- Products - GreenQ

Reference:

- GreenQ Ltd. | IBM

❖ GreenQ-Case-Study-herzliya.pdf

TITLE AND AUTHOR(S)	YEAR	TECHNIQUE(S)	FINDINGS	PROS & CONS
A Smart IoT System for Waste Management	2018	IoT technology	Without well management, the waste containers may be overflowed or give off unpleasant smell, which affect the public health	P: Its saves time and money. N: The one-time cost of installation will be higher than the present techniques.
IoT based Waste Collection Management System for Smart Cities.	2019	Sensors and Networks, IoT technologies	In the recent decades, Urbanization has been a pivotal issue tremendously. In the meantime, there is an expansion in waste creation	P: It decreases traffic flow. N: Training is mandatory for the peoples involved in smart waste management.
IoT Based Smart Waste Management System: "India prospective"	2019	GSM/GPRS modules, IoT techniques, Sensors, and Networks	In present scenario Municipal Corporations in India doesn't get real time information about the dustbins.	P: This method keeps surroundings clean and green and Keep cities more beautiful. N: Requires a greater number of waste bins
Waste Management Improvement in Cities using IoT	2020	Sensors basics and IoT Technologies	Implementing the waste management, the major challenge is the management of waste in cost optimal. And the containers everyday which is a complicates process.	P: It optimizes management, resources and which makes it a “smart city”. N: Reduces manpower requirements and increase unemployment for unskilled persons