Literature Survey

Title	**Smart bin for Clean Cities using IOT**
Authors	Akshayaa.S, Haritha Sree.S, Evangeline.R, Banuselvasaraswathy B
Publication	IEEE - 2022
Overview	In this paper, the authors designed an IoT solution for garbage management with sensors like gas sensor, humidity and Ultrasonic Sensor. The gas and humidity sensor were used to detect humidity inside bin so that it doesn't form bacteria within itself. The ultrasonic Sensor was used to detect the height of the garbage being trashed in the bin and with that measurement the lid with servo motor is compressed to make the bin more free to future trash.
Keywords	✓ Waste management, Sensors, Cloud, IOT, Arduino

Title	**Smart Garbage Monitoring Application Using IoT**
Authors	Vijayaganth V; Sanjaykumar D; Ravi Varma K; Yukisedhu R
Publication	IEEE - 2022
Overview	The authors are gathering sensor values for display in the android application in this paper. The sensor values are uploaded to the cloud (Think speak), retrieved from the cloud, then the retrieved data's are shown in android app. An alert will be sent to the Android app when the waste reaches the garbage bin's threshold value, or when the weight surpasses the threshold value, or when pollution levels rise within the garbage bin.
Keywords	Smart city, Sensors, Cloud, IOT, garbage

Title	**IoT based Waste Management System**
Authors	P Ramesh; J Martin Sahayaraj; N Subash; S R Mugunthan; S. Jaya Pratha
Publication	IEEE – 2022 (ICEARS)
Overview	This paper is implemented using Arduino microcontroller, which controls the entire process with ease and simplicity. This segregator system consists of various stages including of infrared sensor, inductive proximity sensor, rain drop sensor, photoelectric sensor, and the segregation bins. Each waste is detected by the relevant sensor and drops into the bins allocated to it for further processing. The status of the segregated data is made available in the cloud for monitoring and controlling purposes.
Keywords	✓ Waste management, Data processing, Cloud analytics, IOT, Arduino

Title	**Intelligent Waste Management for Smart Cities**
Authors	Nimisha Mittal; Priyanjali Pratap Singh; Prerna Sharma
Publication	IEEE – 2021 (ICIERA)
Overview	The proposed implementation presents an end-to-end scalable solution for disposal as well as collection and transfer. Beyond just bin level detection, the smart bin can also detect odor and flames inside the bin, ensure bin safety, consider the weight capacity of the container, and provide a non-touch interface for disposal to ensure hygiene. The proposed system resolves the nuisances of spilling garbage bins, ill-maintained bins, untimely and unorganized collection. Insightful data is collected to facilitate future ventures.
Keywords	Garbage disposal, IoT, Smart cities, Wireless Sensor Networks

Title	**IoT based Smart City Garbage Bin for Waste Management**
Authors	E. Shanthini,V Sangeetha,M. Jagadeeswari,B Shivani,P Selvapriya,K Anindita,D Divya Shree,R.U Suryanarayanan
Publication	IEEE – 2022 (ICSSIT)
Overview	The smart garbage bin is equipped with a Node MCU microcontroller with open wi-fi and water proof sensors is mounted on the lids of the bin to ensure the status of the bin. To facilitate the entire system to the user, a mobile application is developed for optimal monitoring of garbage.
Keywords	Sensors, IoT, Smart city, Waste management