

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN

ABSTRACT

Many metropolitan cities produce tons of waste every day, so efficient methods for collection and disposal are crucial. To make people's lives happier, safer, and healthier we developed an IoT prototype. The Internet of things (IoT) plays a vital role in connecting human life with machines and the internet.

We developed a collection management system by fixing our prototype onto the dustbins, and now they can be called Smart Bins. Our IoT prototype consists of a sensor, microcontroller, and a Wi-Fi module. It collects data from sensors and passes it to the cloud via the internet. It measures the filled levels of the waste bins, if the bins are full then it sends an alert message to the organization/controller stating "Bin is completely filled" and it also predicts the future levels of the bin.