SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

DOMAIN	IOT
BATCH	B8-2A4E
TEAM ID	PNT2022TMID53817
TITLE	SMART MANAGEMENT SYSTEMS FOR METROPOLITAN CITIES

PROBLEM STATEMENT:

➤ The problem statement is to build the smart waste management for metropolitan cities to reduce the amount of waste produced everyday by the industries and the households is increasing at an appalling rate, and the major reason for this is soaring use of packaged items, textiles, paper, food, plastics, metals, glass etc,

➤ Due to the increasing waste, the public bins which are used for collecting this waste are overflowing, the locality is jumbled of trash, causing not only malodorous streets but also a negative impact on the health and environment.

➤ Trash is breeding ground for bacteria, insects, flies these flies are the same that roam around the eatable and drop the off springs. thus they increase the risk with food poisoning, typhoid, gastroenteritis, salmonella, the insects cause malaria dengue etc,

➤ The aim is to assure a clean environment, good health, and pollution free society by the smart waste management system for metropolitan cities.

ABSTRACT:

➤ This project is aimed to developing a smart waste management system for metropolitan cities under the domain of cleanliness and hygiene.

➤ By designing embedded IOT system can be monitor each dumpster individually for the amount of waste deposited.

➤ For detecting, the presence of any waste of any waste wet or dry can be detected using an IR sensor.

➤ Ultrasonic sensor is used for measuring distance, this makes it possible to measure the amount of waste in containers.

➤ Garbage level of the bins can be monitored through Web App, if the container is full then an alert message will be sent to the corresponding person.