

Smart Waste Management System for Metropolitan Cities

FUNCTIONAL REQUIRMENTS

Objective:

The main objective of the smart waste management system is to develop a new type of waste management in government and individual waste treatment industries to gather waste material for the purpose of recycling and disposal of human waste products, electronics, medical to be disposed safely with usage of multiple modern developed web-based user management and IOT devices based on the garbage bin.

End result :

The garbage bin consists of IOT devices at the top and bottom of the garbage bin which helps to analyze the weight and the amount of space in the dustbin which helps the worker and the waste management to acquire data of waste products dropped by people at individual location in order to maintain and cover a vast area of the city with the report given by the garbage bins.

Focus :

The customer or the person who proceeds to drop waste in the dustbin must notify the type of waste as dropped. The method will help prevent liquid matter which is dropped which may cause damage to the IOT.

Devices in bottom , Since the specification known only to the Smart city management team , they must advice the worker to conduct an journey to analyze how people dropp their wastebased on their activites which help the worker to advice the customer to aware of the device inside thedustbin.

Essentiality :

The IOT device must send data to the Smart city waste management team inorder to check the level ofthe dustin space and the area location where it currently moves , it must send indication level time totime for filling of the waste products ,the localized dustbin may vary from small dustbin to bigger truck asthe IOT devices may eligible for both of them.

Types :

The dustbin distrubuted in all areas of region of the city and , the dustbin will minimize the amount takento manage by the customer , it varies from individual dustbin to Business development area manageblearea dustbin where raw materials calculated and disposed easily and safely and , service will be in bothcustomer and to medicals units in allowance of the customer . The dustbin manages all types of unitsand waste products which the IOT helps the manage the space and indication of another in case of full ofthe one's dustbin which customer allocate another dustbin to provide service to area within the fractionof seconds .