SOLUTION ARCHITECTURE

SMART WASTE MANGEMENT FOR METROPOLITAN CITIES

PROBLEM STATEMENT

Design a smart waste collection system that allows citizens to segregate the various types of solid waste they want to dispose and the municipal authorities to efficiently collect the same. The system should be mobile app (Android) based.

IDEA DESCRIPTION

Monitoring the garbage bins and measuring the bins with the help of sensors, controlling through the web application. By sending the GPS location we can the view the location of the bins from the device.

NOVELTY : This project is very effective in managing waste in any big city. Rather than using conventional periodic collection methods here priority system is used to the city is clean all the time without any overflowing dumpsters. It has been tested and verified properly to make sure all the different parts work together for a smooth function of the whole system.

CUSTOMER SATISFACTION

By making sure no dumpster overflows. implementation of this System peoples are able to live a healthy and hygienic life .

And it leads to dust free clean environment. It also having benefits like Reduced Overflows, No Missed Pickups, Reduction in Collection Cost,CO2 Emission Reduction.

BUSINESS MODEL

Waste Management generates revenue through the provision of various waste management and disposal services and recycling solutions to residential, commercial, industrial, and municipal clients. The Company derives its revenue in the form of various fees associated with its service offerings.

SCALABIITY

Sensors measure the level of waste Containers send the info to a data management system of the level of waste or last collection. Only certain bins are marked for collection. Vehicles only collect full or overdue containers. The way waste is collected is smarter, reducing overall transport and collection by 50%.