Smart waste Management System

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Introduction to project:

Smart Waste Collection System is a simple and innovative project designed to improve cleanliness in cities and towns. Many people miss garbage collection because they do not know the exact time of the garbage truck arrival. This leads to waste overflow, bad smell, and pollution.

In this project, the garbage truck is tracked using GPS technology. When the truck comes near a residential area, the system sends a notification through website or sends and SMS to your phone to the people.This also helps us about know when our garbage bin status. This helps residents dispose of their waste on time. The project promotes a clean environment, saves time, and

supports the idea of a smart and healthy city.

Problem Statement:

Many people dont know about when to dispose of their trash or when the waste collection truck arrives so due to it the wastes get collected in your resident and due to which many viruses or disease can be spread which is unhealthy for our health. This also leades to bad smell.

Existing system:

In current system people dont know when to dispose of their trash in whichever times garbage collection truck come and started whistling in your society to know you that they have arrived and you have to quickly respond to that and make your garbage ready to dispose. If its too late then the garbage truck will go to other route and you will be missed out with huge amount of your waste.

Proposed solution:

We developed Smart waste management system where when the garbage truck is near your area then it will send you an SMS or inform you about its time that in which day it will arrive. The user has to register themselves in its website and register their name house no area location contact info and the website will tell you about garbage truck status. Garbage truck is located by the use of Live GPS and the waste management organization will update its website status regulary so we know its date and status.

Objectives:

- Efficient Waste Collection
- Prevention of Overflow and Pollution
- Real-Time Monitoring
- Improved Public Health & Hygiene
- Smart City Integration

Technology used:

- HTML
- CSS
- JAVA SCRIPT

Future improvement:

GPS will be added in dustbin due to which we could know our dustbin status that if its full or empty.

System wireframe: