

Project Design Phase-I

Proposed Solution Template

Date	24 September 2022
Project Name	Smart Waste Management System for Metropolitan Cities

I am	I'm trying to be	But	Because	Which makes me feel
A resident	Responsible in keeping the environment clean	There are no automated systems	Public are unaware and donot use it	helpless

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> The traditional way of manually monitoring the wastes in waste bins is a bulky process and utilizes more human effort, time and cost which can be avoided with the present technologies. The project aims at finding a method wherein waste management is automated.
2.	Novelty / Uniqueness	<ul style="list-style-type: none"> Monitoring fake reports Using sensors that could be of lesser cost Finding alternatives to GSM
3.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> Helps reduce pollution Reduce the number of bins required - decluttering and improving the street scene Encourage recycling-on-the-go - by ensuring litter bins aren't over-flowing.
4.	Business Model (Revenue Model)	<ul style="list-style-type: none"> Cost involved in operating the trucks for regular garbage collection even when bins aren't filled is highly reduced

5.	Scalability of the Solution	<ul style="list-style-type: none"> • Installing such Smart dustbin at every locality as possible • Plans to send Area-wise SMS/Push messages to Municipal Corporation workers to optimize the manpower and energy consumption • Garbage Reward program to dispense reward/offer coupons to local public based on amount of waste deposited in one time.
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