

Project Design Phase-I

Proposed Solution

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> ✓ The manual monitoring of wastes in waste bins is a time taken process and utilises more human effort, time and cost. ✓ Irregular disposal of wastes causes pollution to people. ✓ Uncollected waste produces bad/foul smell which is harmful to humans.
2.	Idea / Solution description	<ul style="list-style-type: none"> ✓ This process is achieved by using a ultrasonic sensor to know the levels of garbage bin through cloud connection. ✓ Creating an app, there by the corporation of a particular locality inside a metropolitan city can check the garbage bins whether they are filled or not.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ✓ This method tells us to use the transport only in required places and uniqueness is that we can close the lid of the bin when it got filled .So to avoid the over flow of trash. ✓ To reduce the human-effort and difficulty in monitoring the garbage bins.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ✓ People can experience a clean /healthy environment. ✓ Reduces the human effort involving in the garbage disposal process. ✓ This idea will be very much beneficial for a city corporation for monitoring the cleanliness of various parts of the city.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ✓ This reduces a huge fuel cost to the city corporations by reducing the unwanted transport expenses to unnecessary places. ✓ This project aims to support the municipal corporations. ✓ Provide a clean environment.
6.	Scalability of the Solution	<ul style="list-style-type: none"> ✓ A huge time is saved from frequent monitoring of garbage bins through human labours. ✓ It can be updated to automated garbage collection through vehicles. ✓ There is no need of new establishment of things.

		✓ Already present garbage bins are modified slightly.
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