

Project Design Phase
Proposed Solution Template

Date	24 June 2025
Team ID	LTVIP2025TMID49786
Project Name	Visualizing Housing Market Trends An Analysis Of Sale Prices And Features Using Tableau
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Inefficient waste collection in urban areas leads to overflowing bins,health hazards,and increased operational costs for municipal bodies.
2.	Idea / Solution description	Develop a Smart Waste Management System using IoT-enabled bins that send real-time data to a central dashboard.This helps optimize collection routes,monitor fill levels,and reduce costs.
3.	Novelty / Uniqueness	The system uses real-time data from sensors and applies machine learning to predict bin fill times,enabling predictive route planning .It also includes a citizen feedback app for better civic participation.
4.	Social Impact / Customer Satisfaction	Reduces urban pollution,promotes hygiene,and increases civic satisfaction. The solution empowers citizens and boosts municipality performance.
5.	Business Model (Revenue Model)	B2B model: Sell the system to municipal corporations or private waste contractors on a subscription basis. Additional revenue from analytics insights and app-based advertisements.
6.	Scalability of the Solution	Easily scalable to new cities by replicating the model with minimal adjustments. Cloud-based infrastructure supports large-scale deployment and multi-city monitoring.