

**Project Design Phase
Proposed Solution Template**

Date	25 JUNE 2025
Team ID	LTVIP2025TMID50954
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau :A College Food Choices Case Study
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)	Improper waste disposal and inefficient collection methods lead to unhygienic urban areas and increased operational costs for municipalities.
2.	Idea / Solution description	Develop a Smart Waste Management System using IoT-enabled bins that monitor waste levels and send real-time data to a centralized dashboard, allowing for optimized route planning and timely collection.
3.	Novelty / Uniqueness	The solution combines IoT sensors with predictive analytics to minimize manual intervention. It provides real-time data insights, unlike traditional fixed-route garbage collection systems.
4.	Social Impact / Customer Satisfaction	Cleaner environments, reduced health risks, and improved efficiency in municipal operations. Citizens experience fewer overflowing bins and better sanitation.
5.	Business Model (Revenue Model)	B2G model: Offer the system as a subscription-based service to city municipalities. Additional analytics services and upgrades can be sold at premium tiers.
6.	Scalability of the Solution	The system is scalable across different cities and towns. Modular design allows easy integration with existing infrastructure and adaptation to specific local needs.