

Project Design Phase-I Solution Architecture

Date	18 NOVEMBER 2022
Team ID	PNT2022TMID07317
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITON CITIES
Maximum Marks	4 Marks

Solution:

The proposed system constructed to the top of the bins to detect bin level status and alert the admin through a cloud service-based application

The application provides a monitoring platform for the waste management institution to handle the alert records by creating orders for the garbage collectors/drivers which can be accessed via a mobile application system

Unique value preposition:

- All time monitoring system
- Alerting the authorised person once the bin about to fill
- Cloud based mobile application
- IOT based smart mechanised bin

Advantages:

- This initiative intends to assist municipal corporation
- Reduce traffic and time efficient
- Environmental and user friendly
- Reduce man power deployment in one time

Solution Architecture Diagram:

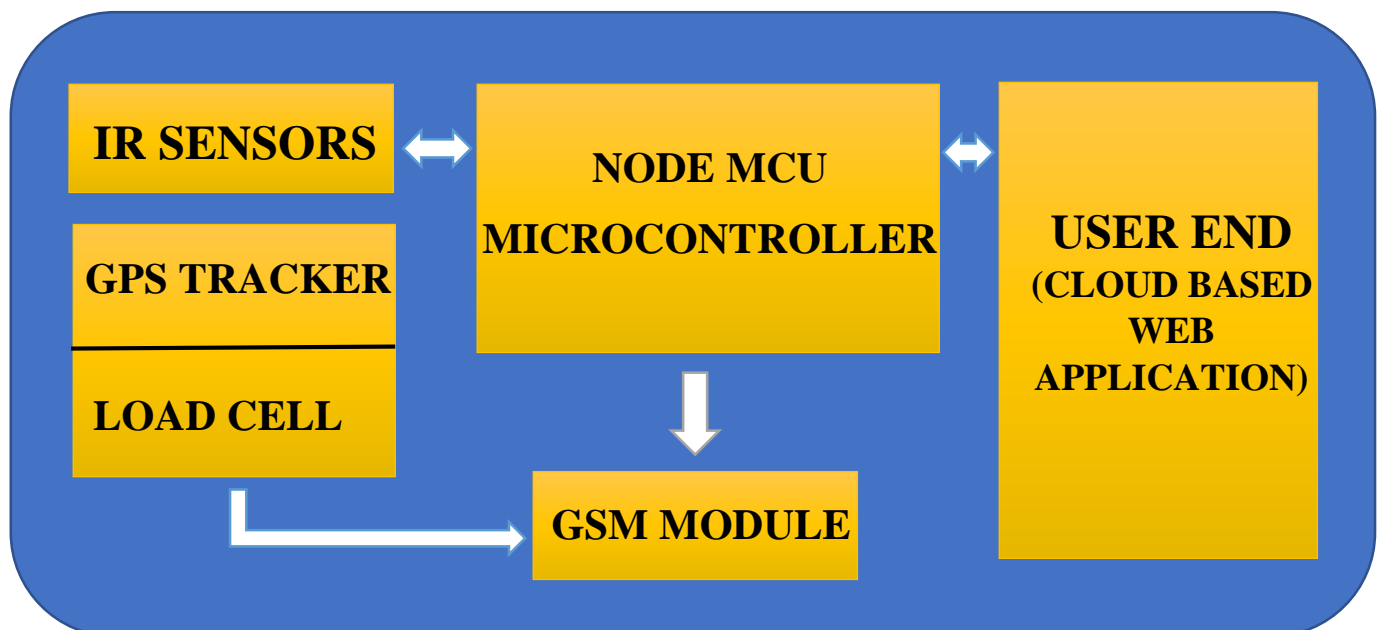


Figure 1: Architecture and data flow of the smart waste management system