

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID37209
Project Name	Project – Smart Waste Management in Metropolitan Cities Using IOT
Maximum Marks	4 Marks

Solution Architecture:

- To reduce the work energy of municipality workers, the application were developed. The application is synced with the IOT hardware component which is fixed or placed in garbage bins to detect the levels or the storage of the garbage bins and send the data to the municipal office once the garbage bin is full.
- The data includes level of the garbage bins and location of the garbage bins Even the workers can check the status of the garbage bins frequently with the help of the application remotely.
- IOT application helps municipality workers to collect the data regarding the location and status of the garbage bins.

Example - Solution Architecture Diagram:

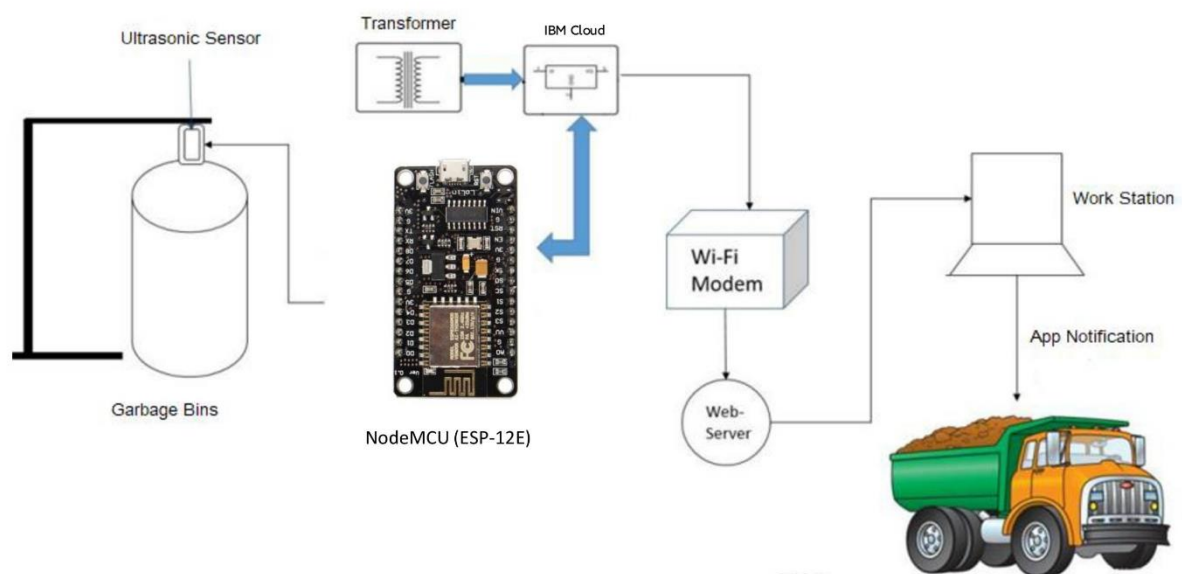


Figure 1: Architecture and data flow of the smart waste management system in metropolitan cities

Reference: <https://ssrn.com/abstract=3841316>