

## Project Design Phase-I

### Solution Architecture

Date	07 October 2022
Team ID	PNT2022TMID42272
Project Name	Project – Smart Waste Management system for Metropolitan cities
Maximum Marks	4Marks

#### Solution Architecture:

- The general architecture which uses the cluster of smart waste bins connected through IoT in the outdoor environment. It uses a GPS to communicate the status of the smart waste bins enabling the effective waste management system.
- The proposed system could be considered as a robotic smart waste bin where the bins could mobilize, localize its location and communicate its status to the cloud.
- The smartness is achieved by having ultra sonic sensors, Node MCU, Capacitive sensors, servomotors, microcontrollers integrated to form an autonomous system.

#### Solution Architecture Diagram:

