**Project Design Phase-I**

**Solution Architecture**

|  |  |
| --- | --- |
| Date | 19 SEP 2022 |
| Team ID | PNT2022TMID07372 |
| Project Name | Smart Waste Management for Metropolitan 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:**

* Full time monitoring system
* Alerting the authorised person on time once the bin about to fill
* Cloud based mobile application
* IOT based smart bin smart waste management

**Advantages:**

* This intends to assist municipal corporation
* Reduce traffic and time efficient
* Clean and Environment
* Reduce man power

**Solution Architecture Diagram:**

**ULTRASONIC SENSOR**

**USER END (CLOUD BASED WEB APPLICATION)**

**NODE MCU**

**MICROCONTROLLER**

**GPS TRACKER**

**LOAD CELL**

**GSM SIM MODULE**