PROJECT DESIGN PHASE-II
DATA FLOW DIAGRAM & USER STORIES

| Date	11 October 2022
Team ID	PNT2022TMID47771
Project Name	Project - Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

Data Flow Diagram:
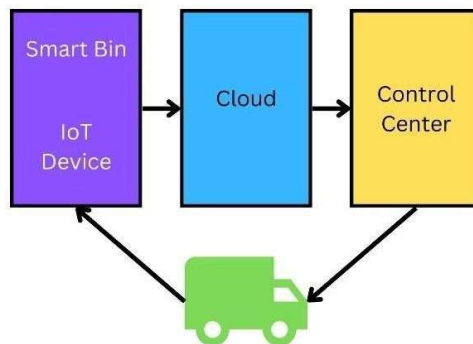
Simplified Diagram

The IoT device is fitted in the trashcans.

- The sensors in the device sense the garbagelevel.
- The GSM/GPRS will send the information aboutthe garbage level to the cloud.
- The admin in the control center notifies the authorized person to collect the garbage.
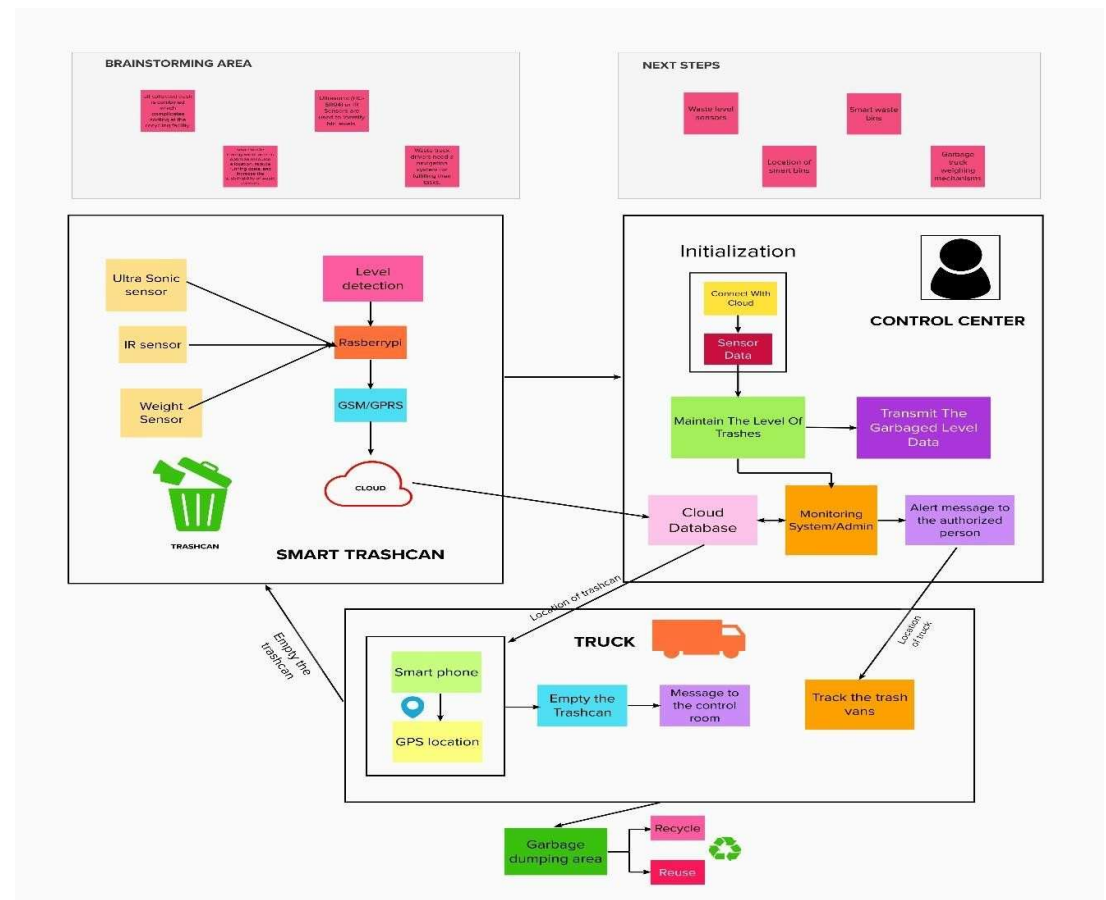
- The truck driver will be notified of the route to thefilled dumpsters.

- The trashes are loaded onto the truck.

- More bins are needed in a highlypopulated area.

- The overflowing of trashcans can be avoided.

- No missed pickups of trashcans.

- New smart dustbins can be installed by justconnecting the IoT device to the cloud.

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Admin	Login	USN-1	As an admin, I can monitor every dustbinand its garbage levels.	I can monitor thesystem.	High	Sprint-4
		USN-2	As an admin, I will inform the authorized person to empty the trashcan.	I can inform the authorized person.	Medium	Sprint-2
		USN-3	As an admin, I can notice the trash levelof every dustbin.	I can notice the trashlevel.	Low	Sprint-2
Admin 2	Login	USN-4	As a Co-Admin, I can send an alert message to the truck drivers.	I can alert the truck driver.	High	Sprint-1
Trash VanDriver	Login	USN-5	As a trash van driver, I will follow theroute to the dustbin.	I can reach the filledtrashcans.	High	Sprint-2
Garbage Collector		USN-6	As a waste collector, I will collect all the trash from the dumpsters and load it onto thetruck.	I can empty the trashcans.	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Municipal officer	Login	USN-7	As a municipality officer, I can supervise the process and ensure the cleanliness of the city.	I can manage all theseprocesses going good.	High	Sprint-1
Trashcan Monitor	Register	USN-8	As a trashcan monitor, I can initialize newtrashcans.	I can register new smarttrashcans.	Medium	Sprint-3
		USN-9	As a trashcan monitor, I can check the quality of IoT device's quality.	I can check the IoT device.	Medium	Sprint-3