Project Design Phase-II
Solution Requirements(Functional & Non-functional)

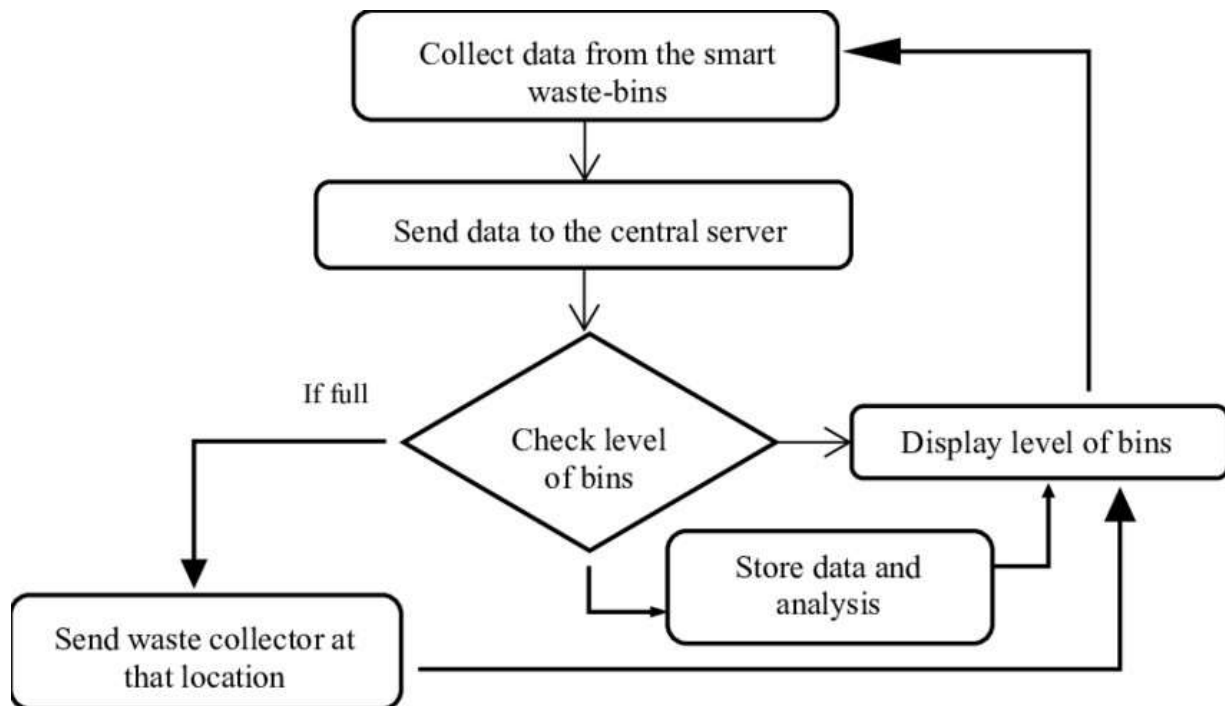| Team ID	PNT2022TMID19022
Project Name	Project –Smart Waste Management for Metropolitan Cities
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enter and leaves the system, what changes the information, and where data is stored.

A smart waste management uses analytics to translate the data.

- The test conducted is the situation where the garbage bin is empty or its garbage level is very low.
- Then, the bin is filled.
- The notification is sent by the system.
- The garbage needs to be collected immediately.
- Location prone to overflow.
- The number of bins needed to avoid overflowing waste.
- The number of collection services that could be saved.
- The amount of fuel that could be saved.
- The driving distance that could be saved.
- No missed pickups of trashcans.
- New smart dustbins can be install by just connecting the IoT device to the cloud.

Example:

Data Flow Diagram

User Stories

Use the below template to list all the user stories for the product

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Admin	Login	USN-1	Admin gives a user id and password for each and every workers and helps to manage	I can access my account / dashboard	Medium	Sprint-2
Assistant Admin	Login	USN-2	They help us to monitor the garbage level once it is filled alert message will be thrown with location	I can manage and monitor the garbage level	High	Sprint-1
Driver	Login	USN-3	They will follow the location	I can drive to reach the	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			where the garbage is filled and collect them in the truck	garbage where it is filled using location and collect them		
Garbage Collector	Login	USN-4	It will collect the trash and load it into the garbage truck and send to landfill	I can collect the trash and load them in truck	Medium	Sprint-2
Government Municipality	Login	USN-5	It will check the process without involving any issues	I can manage the process smoothly	High	Sprint-1