Project Design Phase-II
Data Flow Diagram & User Stories

Date	26 October 2022
Team ID	PNT2022TMID47365
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

Data Flow Diagrams:
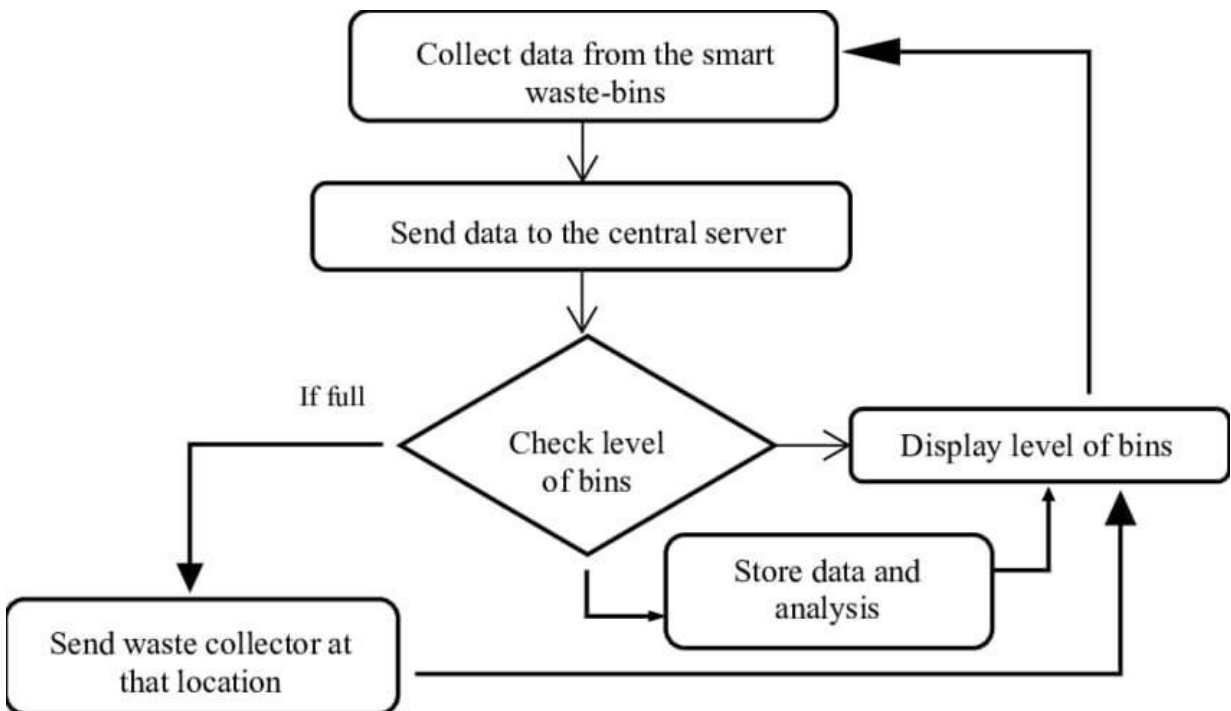
A Data Flow Diagram (DFD) is a traditional visual representation of the information flowswithin a system. A neat and clear DFD can depict the right amount of the system requirementgraphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

A clever waste management platform uses analytics to translate the statistics accumulate foryour bins into actionable insights to help you improve your waste offerings.You can receive information on metric inclusive of:

The first check conducted is the situation in which the rubbish bin is empty or its garbage level could be very low.

Then, the bin is packed with greater rubbish till it is level has handed the first thresholdprice, which is ready to eighty% then the first caution SMS is being dispatched, as depicted.

The first notification SMS sent with the aid of the machine, once the waste reaches thelevel of eighty-five% full.

The 2d notification SMS dispatched with the aid of the machine, indicating that bin is atleast ninety-five% complete and the rubbish needs to be collected at once.

Location vulnerable to overflow.

The variety of packing containers needed to keep away from overflowing waste.

The quantity of collection offerings that could be saved.

The amount of gas that might be saved.

The driving distance that might be saved.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Admin (who manage web server)	Login	USN-1	As an admin, I gave user id and password for every worker and manage them.	I can manage web account/dashboard.	Medium	Sprint-1
Co Admin	Login	USN-2	As a Co admin, I'll manage garbage level monitor, if garbage gets filling alert, I will post location and garbage I'd to trash truck.	I can manage garbage monitoring.	High	Sprint-2
Truck driver	Login	USN-3	As Truck Driver, I'll follow the route send by Co admin to reach the filled garbage.	I can drive to reach the garbage filled route in shortest route given	Medium	Sprint=3
Total garbage collector	Login	USN-4	As a Waste Collector, I'll collect all the trash from garbage and load into garbage truck and send them to landfill.	I can collect trash and pulled to truck and send off.	Medium	Sprint-4
Municipality	Login	USN-5	As a municipality, I'll check the process are happening in discipline manner without any issues.	I can manage all these processes going well.	High	Sprint=5