Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID37138
Project Name	Smart waste management system in metropolitian 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 enters and leaves the system, what changes the information, and where data is stored.

```
                    ┌─────────────────────────┐
                    │  Collect data from the  │◄──────────────────────┐
                    │       smart             │                       │
                    │     waste-bins          │                       │
                    └─────────────────────────┘                       │
                              │                                       │
                              ▼                                       │
                    ┌─────────────────────────┐                       │
                    │ Send data to the        │                       │
                    │  central server         │                       │
                    └─────────────────────────┘                       │
                              │                                       │
                              ▼                                       │
                           ◇◇◇◇◇◇                                      │
          If full        ◇        ◇        ┌──────────────────────┐   │
       ┌────────────────◇ Check level ◇───►│ Display level of bins│───┘
       │                ◇  of bins   ◇     └──────────────────────┘
       │                  ◇        ◇              ▲        ▲
       │                     ◇◇◇◇◇◇               │        │
       │                       │        ┌──────────────────┐
       │                       └───────►│ Store data and   │
       ▼                                │   analysis       │
┌──────────────────────┐               └──────────────────┘
│ Send waste collector │                        │
│   at that location   │────────────────────────┘
└──────────────────────┘
```

Collect data from the smart waste-bins

Send data to the central server

Check level of bins

If full

Display level of bins

Store data and analysis

Send waste collector at that location
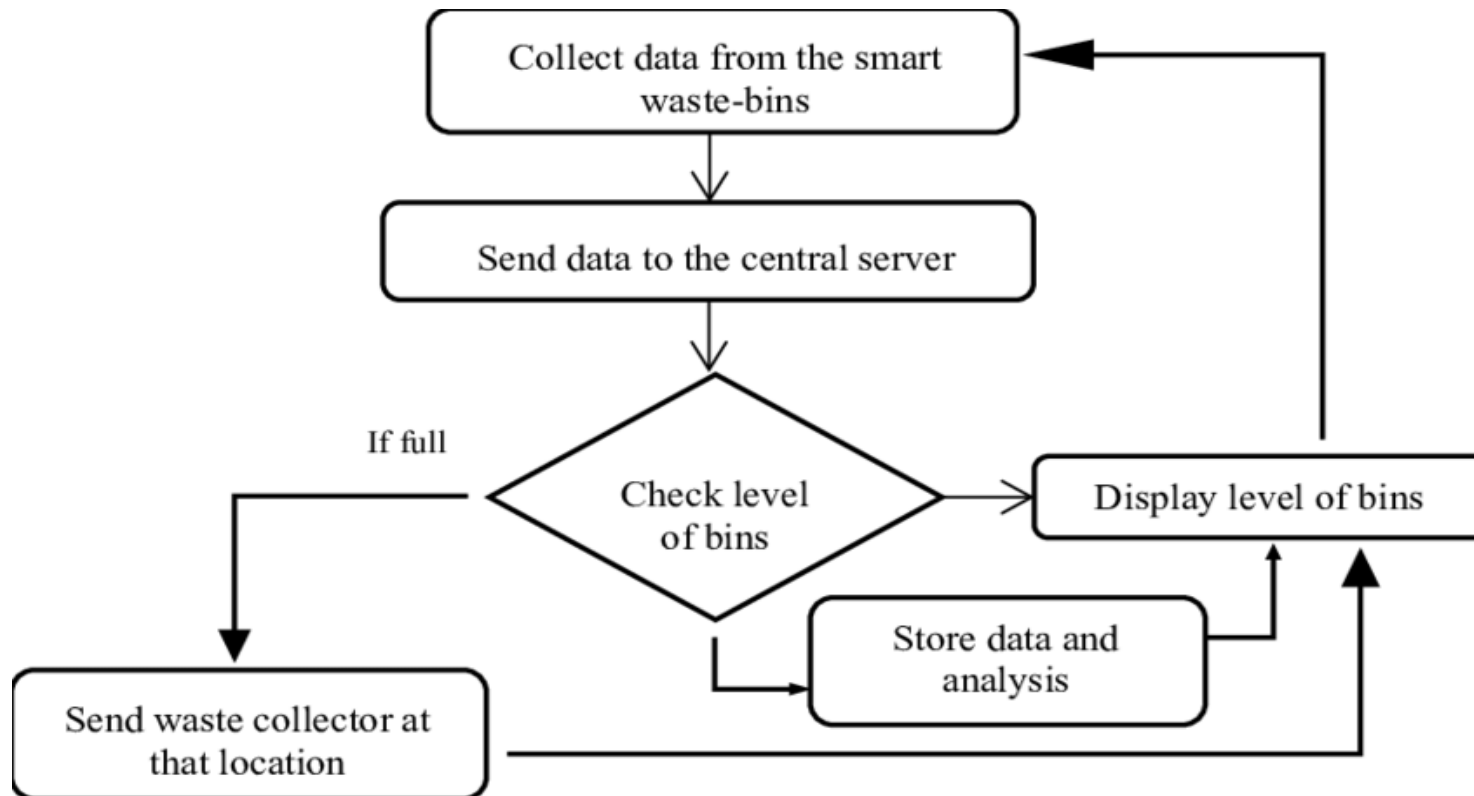
User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can access through gmail.	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access through gmail.	High	Sprint-1
Customer (Web user)	Login	USN-6	As a user, I will receive confirmation email once I have registered for the application	I can access through gmail.	High	Sprint-1
Administrator	Login	USN-7	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access through gmail.	Medium	Sprint-1