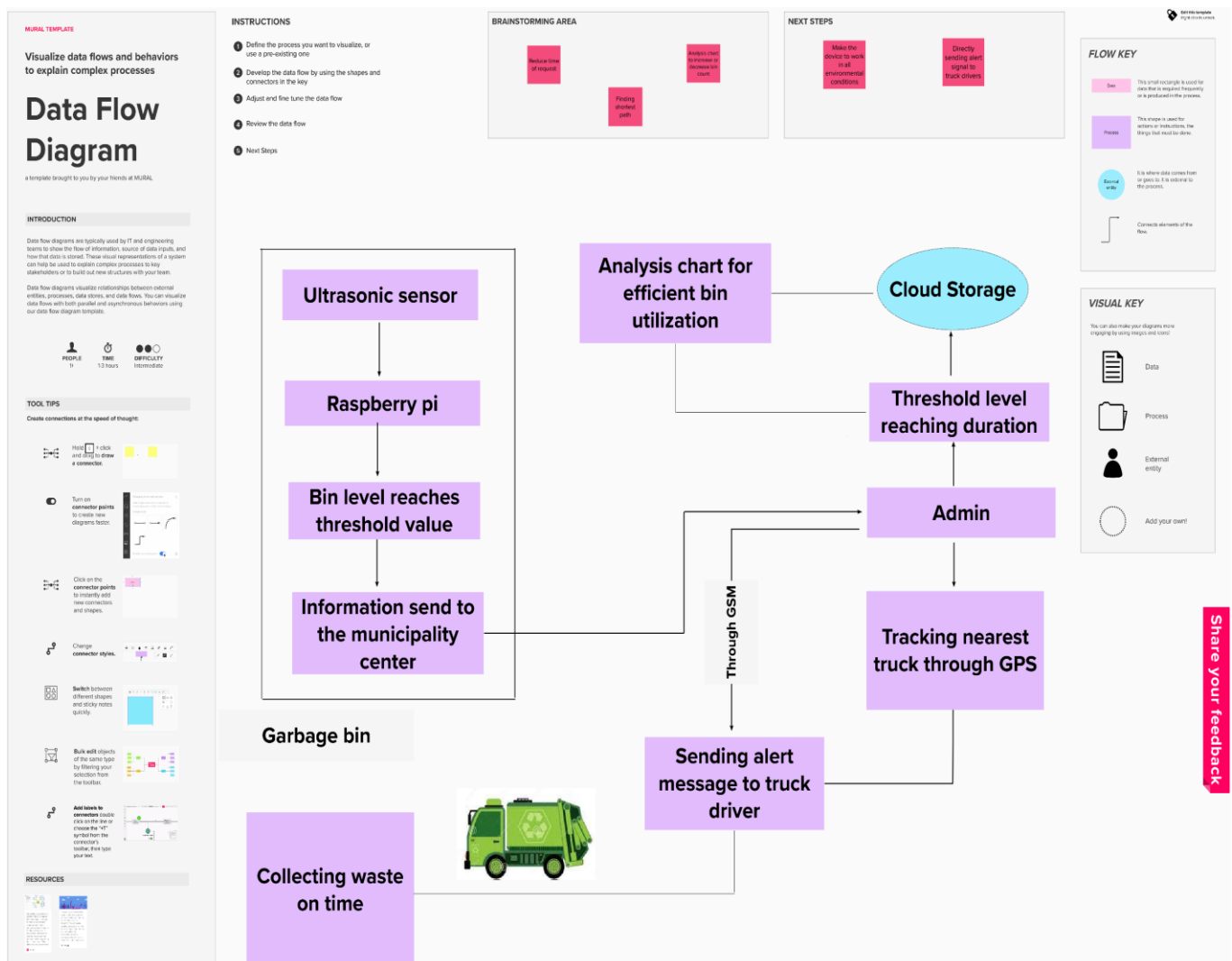


Project Design Phase-II

Data Flow Diagram & User Stories

Date	30 October 2022
Team ID	PNT2022TMID01873
Project Name	Smart Waste Management System for Metropolitan Cities
Maximum Marks	4 Marks

Data Flow:



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.

The Smart Waste Management System for Metropolitan Cities Programme uses analytics to translate the data gather in our bins into actionable insights to help us and improve our waste services.

You can receive data on metric such as:

- The first test conducted is the situation where the garbage bin is empty or its garbage level is very low.
- Then, the bin is filled with more garbage until its level has surpassed the first threshold value, which is set to 80% then the first warning message or mail is being sent as depicted.
- The first notification message or mail is sent by the system, once the waste reaches its threshold level of 85% full.
- The second notification message or mail sent by the system, indicating that bin is at least 95% full and the garbage needs to be collected immediately.
- Locations Prone to overflow.
- The number of collection services that could be saved.
- The amount of fuel that can be saved with the help of GPS by finding the shortest path and also the driving distance could be saved.
- Increasing or decreasing the number of bins can also be analysed.

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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 (who manage web server)	Registration and login	USN-1	As a Admin, I can register for the application by entering my email, password, and confirming my password for the first time and I can login every day to monitor and If I am on leave, I gave user id and password for even workers and manage them.	I can access and manage my account / dashboard	Medium	Sprint-2
Co Admin	Registration and login	USN-2	As a Co Admin, I will receive confirmation email once I have registered for the application. I'll manage garbage level monitor if garbage bin reaches its threshold value , a message is sent to me by the system and I will post the location and garbage id to track driver through mail or message.	I can manage garbage monitoring	High	Sprint-1
Truck Member/ Driver	Message	USN-3	As a Truck Driver, once I get notification, I'll follow the route send by the co- admin to reach the filled	I can drive to reach the garbage filled location area by finding the shortest path.	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			garbage with the help of GPS Module.			
Local Garbage Collector	Message	USN-4	As a Waste Collector, I'll collect all the wastes from the garbage bin and load into garbage truck and send them to landfill.	I can collect wastes and pulled to truck and send off	Medium	Sprint-2
Municipality	Register and Login	USN-5	As a Municipality, I'll check the process are happening in discipline manner without any issues and the wastes are collected on time.	I can manage all these process are going good.	High	Sprint-1