

Project Design Phase-II

Data Flow Diagram & User Stories

Date	13 October 2022
Team ID	PNT2022TMID38779
Project Name	Smart Waste management in metropolitan cities.
Maximum Marks	4 Marks

Data Flow Diagrams:

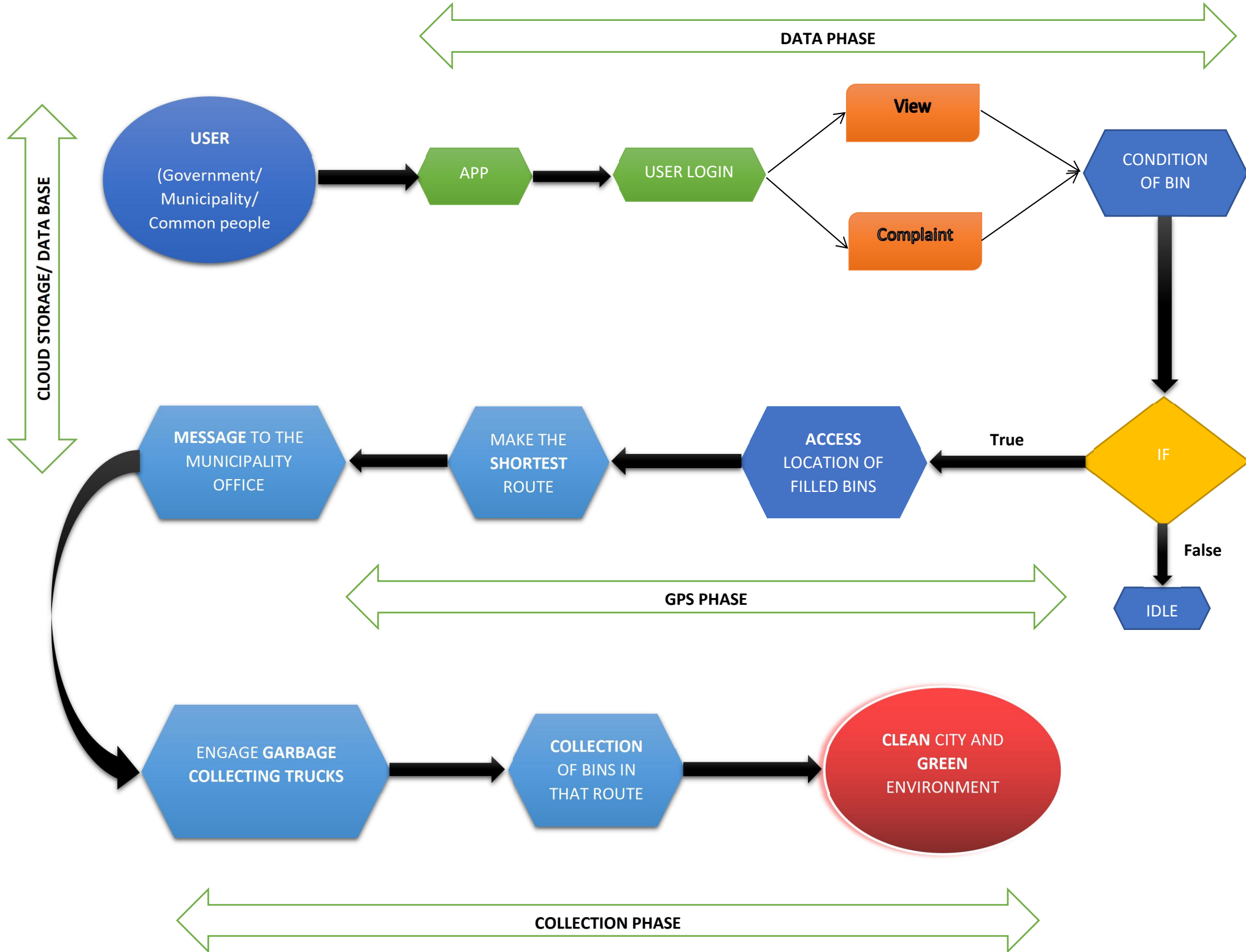
- A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
- A smart waste management platform uses analytics to translate the data gathered in your bins into actionable insights to help you improve your waste services.
- You can receive the data 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 SMS is being sent, as depicted

The first notification SMS sent by the system, once the waste reaches the level of 85% full

The second notification SMS sent by the system, indicating that the bin is at least 95% full and the garbage needs to be collected immediately



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 created an account in the application provided.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I registered using my gmail.	I can receive confirmation email .	High	Sprint-1
		USN-3	As a user, I successfully installed the app and login to see the bin level in my area.	I can register & access the dashboard .	Low	Sprint-2
	Login	USN-4	As a user, I login using my gmail and password easily.	The login process was easy and simple to access the dashboard.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web user)		WUSN-1	As a web user I can see whether the bins in the locality are filled or not only after logging in using my gmail account.	The website must work properly so that no error occurs in the info.	High	Sprint-2
Customer Care Executive		CCE-1	A customer care executive will always be available for the interaction with the customer to clarify the queries.	An executive will clarify the doubts and note down the complaints of the application if any .	High	Sprint-2
Administrator		ADMIN-1	I as a Admin can access the data or information provided by the customers to analyse their needs and provide the required service.	The details of the locality of the user is provided to the municipal corporation when a complaint is received.	High	Sprint-1