Project Design Phase-II
Data Flow Diagram &User Stories

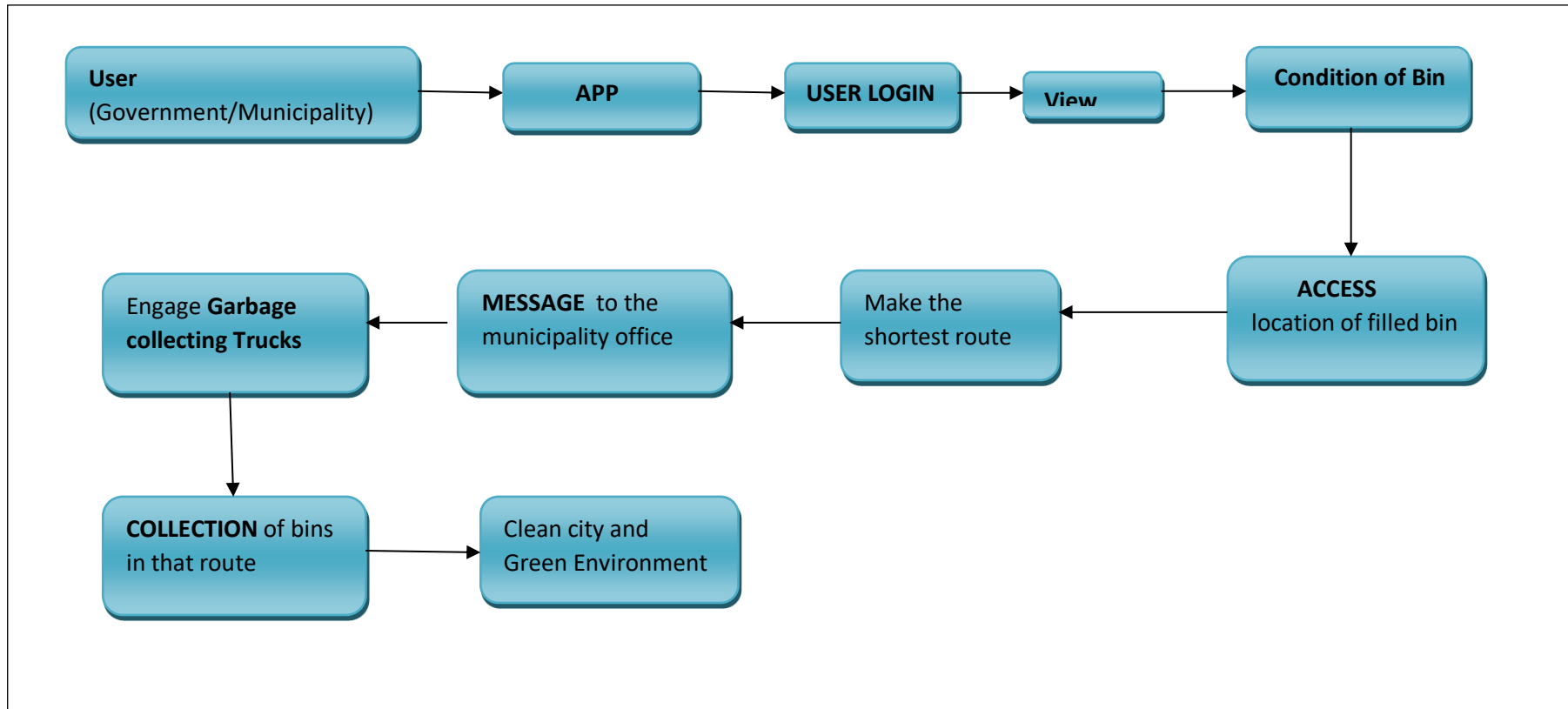| Date	13 October 2022
Team ID	PNT2022TMID31883
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information 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 gather in your bins into actionable insights to help you improve your 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 70% then the first warning SMS is being sent, as depicted.

→ The first notification SMS sent by the system, once the waste reaches the level 80% full.

→ The second notification (Alert) SMS sent by the system, including that bins is at least 90% full and the garbage needs to be collected immediate.

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User                          APP          USER LOGIN      View      Condition of Bin
(Government/Municipality)
                                                                           |
                                                                           v
Engage Garbage    <--   MESSAGE to the   <--   Make the   <--          ACCESS
collecting Trucks       municipality office     shortest route    location of filled bin
      |
      v
COLLECTION of bins   -->   Clean city and
in that route              Green Environment
```

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 / dashboard	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 successfully installed the app and login to see the bin level in my area.	I can register & access the dashboard.	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
Administrator	Login	USN-6	As a admin, i gave user id and passwords for all workers and manage them.	I can manage web account/ dashboard		
Municipality	Login	USN-7	As a Municipality, I will check the process are happening in discipline manner without any issues.	I can manage all the works are well or not.		