Project Design Phase-II
Data Flow Diagram &User Stories

Date	03October 2022
Team ID	PNT2022TMID42565
Project Name	Project – Smart Waste Management Systems For Metropolitan Cities
Maximum Marks	4 Marks

Data Flow Diagram:

1. The user should register himself in the web application and this user database will be stored in IBM cloudant through Node-Red.
2. Here we use IOT's such as level sensor and GPS location(Global Positioning System).
3. The IOTdevices to the waston IOT platform exchanges the sensor data.
4. Sensors to integrate use random values as a sensor data.
5. Data is integrate to garbage levels detected to bin.
6. The GPS coordinates garbage bin will be sent IOT platform.
7. The location of bin values along with viewed in web application.
8. Web application through interaction with user/admin device.
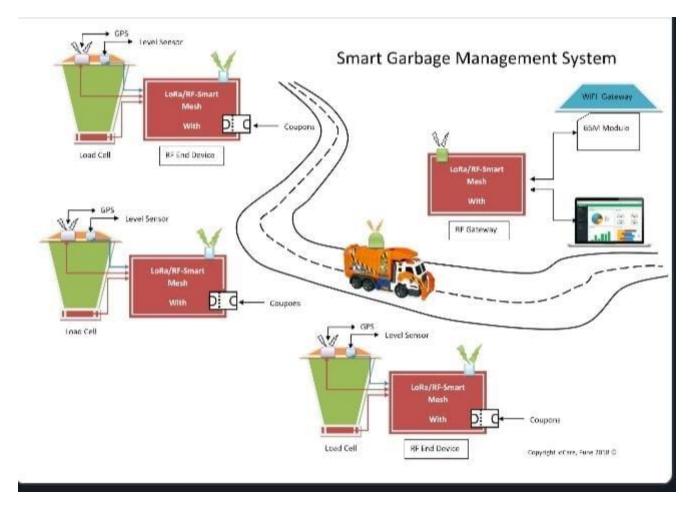9. User/admin receives the notification message about garbage levels.

Fig:Data Flow Diagram

Reference: https://www.ibm.com/case-studies/greenq-[td

https://greenq.gq/wp-content/uploads/2018/01/GreenQ-

Case –Study-herzliya.pdf

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user, web user)	Registration	USN-1	As a user, I can register for the application by entering my name,phone number, password, and confirming my password.	I can access my account / dashboard.	High	Sprint - 1
		USN-2	As a user, I will receive a pop-up message that I registered for the application.	I can click ok and can access my account.	High	Sprint - 1
Administrator, Care Executive	Registration	USN-1	As a user, I can register for the application by entering my name,phone number, password, and confirming my password.	I can access my account / dashboard.	High	Sprint - 1
		USN-2	As a user, I will receive a pop-up message that I registered for the application.	I can click ok and can access my account.	High	Sprint - 1
	Login	USN-3	As a user, I can log into the application by entering phone number& password.	I can login with my phone number and password.	High	Sprint - 1
	Dashboard	USN-4	As a user, I can register for the application through Internet.	I can register & access the dashboard with Internet Login.	Low	Sprint - 2
		USN-5	As a user, I can register for the application through phone number.	I can confirm all my details.	Medium	Sprint - 1
	Order Details	USN-6	As a user, I visit the particular GPS location and collect the trash.	Make sure that the process is completed.	High	Sprint - 2