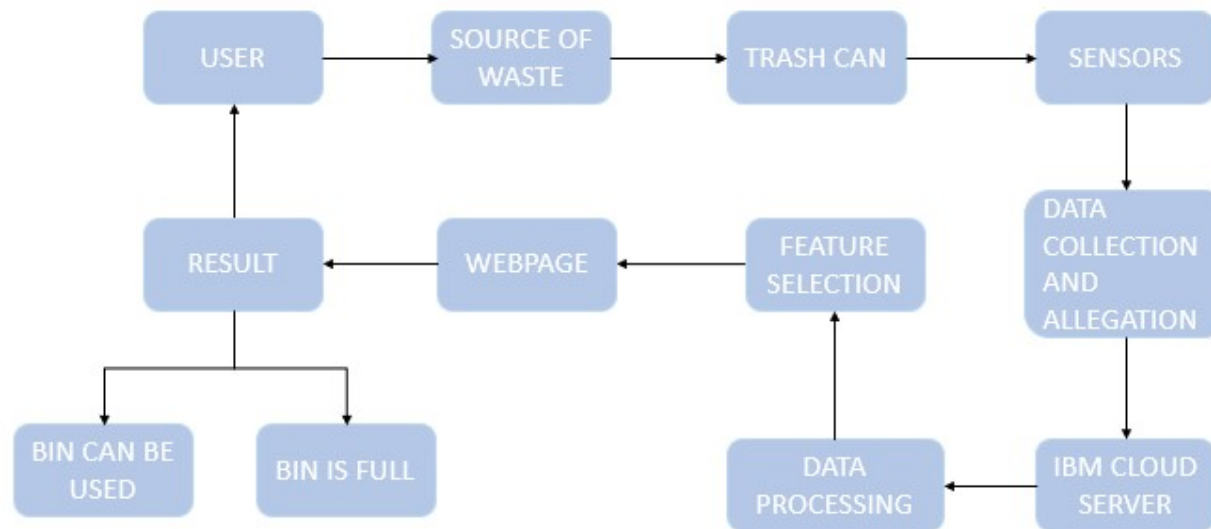


Project Design Phase-II
Data Flow Diagram & User Stories

Date	06 May 2023
Team ID	NM2023TMID15707
Project Name	Smart City waste Management System with connected trashcans

Data Flow Diagrams:



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Waste Management Personnel	Trash Can Monitoring	USN-1	As a waste management personnel, I want to view the fill level of each connected trash can in real-time.	The system displays the fill level of each trash can on a dashboard. The fill level is updated in real-time. The dashboard provides a clear indication	High	SRISABARI S
Waste Management Personnel	Trash Can Monitoring	USN-2	As a waste management personnel, I want to receive notifications when a trash can reaches a certain fill level threshold.	The system sends an alert or notification to the waste management personnel when a trash can reaches a defined fill level threshold (e.g., 80% full). The notification includes the trash can's ID and location. The notification is sent via email or push notification	Medium	SHARUKESHAN R
Waste Collection Scheduling	Waste Collection Scheduling	USN-3	As a waste management personnel, I want to schedule waste collection based on fill levels and predefined routes.	The system allows the waste management personnel to assign collection schedules to specific trash cans. The scheduling system considers the fill levels of the trash cans to optimize the collection routes. The waste management personnel can adjust the schedules based on operational needs.	High	VEDANAYAGAM L
Waste Management Personnel		USN-4	As a waste management personnel, I want to generate reports on waste collection efficiency and trends.	The system provides reports on collection frequencies, average fill levels, and any missed collections.	Medium	SRUTHIE N

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
				The reports can be filtered by date range, location, or specific trash cans.		
Waste Management Personnel	Integration with City Services	USN-5	As a waste management personnel, I want to integrate the waste management system with the city's billing system.	The system provides the necessary data (e.g., number of collections, fill levels) to the billing system for accurate waste billing. The integration is secure and maintains data privacy.	High	VEDANAYAGAM L
Waste Management Personnel		USN-6	As a waste management personnel, I want to share waste management data with other city departments (e.g., environmental department, urban planning).	The system allows the waste management personnel to generate reports and export data for sharing with other departments. The data sharing process is secure and complies with data protection regulations.	Medium	SHARUKESHAN R