

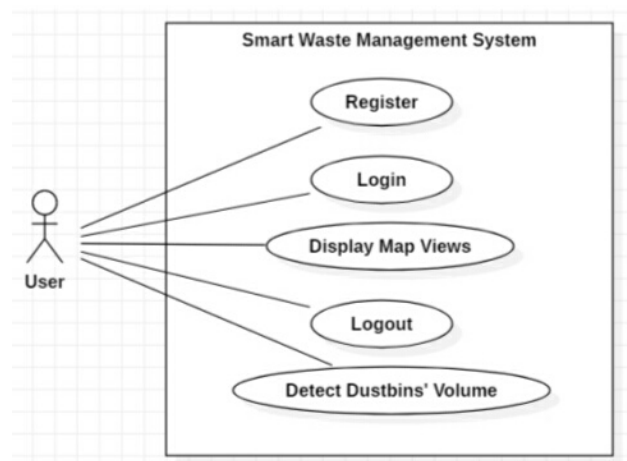
Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID41308
Project Name	Project – SMART WASTE MANAGEMENT FOR METROPOLITAN CITIES
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Communicate and exchange information to provide server for user	To detect level of bins Weight of bins Alert the authorized person
FR-2	Live asset monitoring	Track the bins and truck location Waste collection status Bins fill level monitor
FR-3	User requirement	Promote health care service Pollution prevention Improve efficiency
FR-4	Mandatory	Reduce traffic and fuels Reduce running cost Safe disposal of waste Avoid health hazard
FR-5	Captured in use case	(image)
FR-6	Testing Empty(T1) Medium(T2) Nearly full(T3) Full (T4) Threshold crossed(T5)	The test case status is pass if T1→null T2→intermediate level T3→above the threshold level T4→maximum level T5→spill over



Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	High usability of user experience design for user, which is to solve the problem efficiently.
NFR-2	Security	The system an only accessed by authorized person.
NFR-3	Reliability	Identifying the problem and providing clear solution for it, by accurate real time data collection.
NFR-4	Performance	The performance should effective and efficient.
NFR-5	Availability	The existing system affects the garbage collector due to climate change and indirectly affects the people health care.
NFR-6	Scalability	The system should have upgradable feature.