

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID49521
Project Name	IOT - Smart Waste Management System for Metropolitan Cities
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Cloud Connectivity	Data will be stored in cloud database and used for route detection.
FR-2	Mobile Responsiveness	Connect the user mobile with the respective application
FR-3	Segregation Process	To segregate a garbage collection metal waste, E-waste, medical waste and harmful waste.
FR-4	Wireless Sensor	Optimize the waste management and reduce the manual work for dispose the harmful waste.
FR-5	Level Monitoring	Garbage level monitored in day by day sends data to nearby garbage collector trucks.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Reduction of man power and manage a collection routes to placed more bins effectively.
NFR-2	Security	It secures the user from the diseases formed by the harmful waste.
NFR-3	Reliability	Environmental protection from pollution and contamination of effective waste disposal.
NFR-4	Performance	It detects the harmful waste even it is present in small level also.
NFR-5	Availability	Garbage bin available in nearby building liveable cities and residential and industrial sectors.
NFR-6	Scalability	It improves disease free environment.