Project Design Phase II

Solution Requirements (Functional & Non-functional).

Team ID	PNT2022TMID22821
Project Name	Smart Waste Management system for Metropolitan Cities.
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR.NO	Functional Requirements	Sub Requirement (Story/Sub-Task)
FR-1	User registration	Registration through e-mail id & Mobile number.
FR-2	User confirmation	Confirmation via email Confirmation via OTP.
FR-3	Web application	Node-Red -Service.
FR-4	Configure to Device	IBM Watson IOT Platform.
FR-5	Database	Detailed database of bins and stands.
FR-6	Python Script	IBM IOT Platform.

Non-Functional Requirements:

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

FR.NO	Non-Functional Requirement	Description
NFR-1	Usability	The reduction of waste.
NFR-2	Security	Prediction in bin fulness.
NFR-3	Reliability	Effective waste disposal.
NFR-4	Performance	Optimize source allocation, reduce running costs and increase sustainability of waste services.
NFR-5	Availability	Available for the allocated time by the municipality or the private companies.
NFR-6	Scalability	This is very effective in managing waste in big city. Here priority system is used to clean the city all the time without any overflowing dumpsters.