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

Date	03 October 2022
Team ID	PNT2022TMID14976
Project Name	Project – 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 Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Authorization	- Admin login by using valid user name & password - Admin can view the user details, add contents, providing general key & personalized key to users - Admin can recover the attacked contents
FR-2	Authentication	End user authentication by admin, finding the attackers
FR-3	User registration	User register through user name, E mail ID, mobile no, Location, date of birth, address, pin code
FR-4	User login	login by using authorized user name and password
FR-5	User Interface	requires a user interface for monitoring and manually intervening in the efficient and timely collection of garbage from the selected Garbage bins

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The structure of the system is kept feasible enough so that there should not be any problem from the users' point of view then simple to use and install on the garbage bin
NFR-2	**Security**	The system allows secured communication between server, Admin, and users.
NFR-3	**Reliability**	The system is reliable and will not not degrade the performance of the existing system and will not lead to the hanging of the system.

NFR-4	**Performance**	Occasionally backups are taken to maintain reliability and necessary security measures The system can be reusable and maintainable and can be able to adopt future implementations to the system.
NFR-5	**Availability**	Able to seamlessly integrate multiple waste management clients into the service
NFR-6	**Scalability**	Capable of incorporating a large number of garbage sensors