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

Date	15October 2022
Team ID	PNT2022TMID21861
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 Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login through username and password Login through Gmail Login through LinkedIn
FR-4	Primary specifics	The waste bins will be monitored through internet

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	To utilize a system easily and accelerate routine operations, it must have a logical user interface. • Anyone who registers on the portal can utilize the system for waste management.
NFR-2	**Security**	The following is a list of some of the factors that have been found to prevent malicious or unintentional access, usage, modification, destruction, or disclosure of the software: • Maintain particular log or historical data sets. • Apply specific cryptography methods. • Limit the number of devices • Verify the integrity of the data.
NFR-3	**Reliability**	At the time of entry, all user variable data will be committed to the database. • By using the available backup procedures and techniques, data corruption is avoided.
NFR-4	**Performance**	• The system must allow for the simultaneous use of many users at all times for the purpose of waste

		management.
NFR-5	**Availability**	• The system should always be accessible, allowing for simple user access.
NFR-6	**Scalability**	• Identifies the maximum workloads at which the system will still operate well. • Focus on the measurement of the system's response time under various load levels.