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

Date	03 October 2022
Team ID	PNT2022TMID15126
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	Visit the web application through any browser	Registration through Mobile Number Registration through Gmail
FR-2	Customers are asked to dispose the different types of waste in the respective bins	For example: E-waste, Organic waste, Plastics should be thrown away only in the bins maintained separately for them.
FR-3	For any complaints, the user needs to visit the query prompt box in the web application.	The user needs to use the raise any query prompt box to raise any complaint.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The Web Application is easy to use, and the users can track real time updates.
NFR-2	**Security**	The user information will be secured as the accounts are verified with Gmail.
NFR-3	**Reliability**	Operates in a real time manner resulting in less manpower.
NFR-4	**Performance**	Accurate information will be provided, thus increasing the efficiency. This will decrease the total expenditure associated with the garbage collection.
NFR-5	**Availability**	The smart waste bins can be used everywhere and thus the intended authority can collect the waste whenever the bins are fully dumped with garbage
NFR-6	**Scalability**	As the smart bins have sensors and integrated with the web application, the waste can be managed efficiently and avoids unwanted dumping of waste.