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

Date	17 October 2022
Team ID	PNT2022TMID47912
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 Gmail
FR-2	User Confirmation	Confirmation via Email
FR-3	User Alert	sends an alert message to workers when bins are full
FR-4	Locations	Finding the location of the bin
FR-5	Share location	Enables to share locations with others
FR-6	Track level	It helps Users to track & view the level of the bin
FR-7	Forums	It shall include forums to post the problems
FR-8	Feedback	It helps the developer side to improve apps by further releases

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Interactive & user friendly UI is designed which creates user interest over the app
NFR-2	**Security**	Security is enhanced as the system has a secured login/registration page & even the data is stored in a secured manner.
NFR-3	**Reliability**	The users can access the bin level & location of any bin without any failure
NFR-4	**Performance**	It provides an excellent experience in terms of performance. The rendering of components are fast
NFR-5	**Availability**	The entire system is available for 24x7 with a failure percent of 0.8%
NFR-6	**Scalability**	As cloud databases are used for data storage, therefore new users can be added by means of the vertical scaling concept in cloud databases.