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

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Team ID	PNT2022TMID22482
Team members	Saravanan G Anand Krishnan N Kishore Kumar J Mohamed Idris M
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	User Registration	Registration through Form Registration through Gmail Registration through Corporation ID
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Access	A User Interface which is easy to use and to see the status and locations of the wastebins.
FR-4	Network connection	To access the UI, a network connection is needed for the user to use the application.
FR-5	GPS access	User should turn on the GPS access to know the locations of the filled bins

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	User should be able to use the interface easily to get data on filled waste bins and their location
NFR-2	**Security**	The data in the system should be very secure, only registered user should have access to the data
NFR-3	**Reliability**	The UI and the system should be reliable for bin status data and accuracy of locations of bins should be trustworthy.
NFR-4	**Performance**	Performance of the system should not get any lag or errors in the data or UI performance.
NFR-5	**Availability**	The UI should be available whenever the user accesses the UI and works with the system. Data are stored in the cloud for availability.
NFR-6	**Scalability**	The system should work properly even when the number of nodes is increased and there should be no lag with the UI when numbers of user also increase.