

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	24 October 2022
Team ID	PNT2022TMID20530
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	User Registration	Download the application through online registration
FR-2	User Confirmation	Confirmation via E-mail Confirmation via OTP using the phone number
FR-3	Cloud	Sensor details are updated and stored in the cloud database.
FR-4	Notifier	Notification should send automatically to the registered mail or phone when bins are filled
FR-5	Sensor	Garbage bins are fitted with sensors that will monitor the wastage level.

#### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	It will stop the overflowing of dustbins along roadsides and localities as smart bins are managed in real time.
NFR-2	<b>Reliability</b>	Details are maintained in the cloud.
NFR-3	<b>Performance</b>	It provides a clean environment
NFR-4	<b>Availability</b>	This method is available for all urban people in smart city
NFR-5	<b>Scalability</b>	Maintaining garbage bin monitoring and providing guiding service based on the database.