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

Date	14th October 2022
Team ID	PNT2022TMID34106
Project Name	Smart waste managment system for meteropolitian 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	The user has to login by using valid user name and password. After login successful he can do some operations such as add contents, view all contents, list all searching history, list ranking of images, list of all personalized search, attacker details, recover contents, list of all user and logout.
FR-4	User add content	The user can add n-number of contents. If the user want to add a new content, then user will enter a URL, domain, title, description, uses, related images of the particular content, then submit and that data will stored in data base.
FR-5	User view	The user can view list of all users. The user can view the attacker details. If admin clicks on attacker details button, the admin will get attacker information. The user can view the comparison between greedy DP & greedy IL.

FR-6	User search	The login user can search query. Before searching any query, the user should request generalization, then proxy server will provide a generalization of profile. After personalized searching, the greedy IL will be generated.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Product simple and easy to install.
NFR-2	**Security**	All communication must use end to end encryption.
NFR-3	**Reliability**	The system should be reliable and must not degrade the performance of the existing system and should not lead to the hanging of the system.
NFR-4	**Performance**	A reduction in the number of waste collections needed by up to 80%, resulting in less manpower, emissions, fuel use and traffic congestion.
NFR-5	**Availability**	Easily integrated into your current waste management software system.
NFR-6	**Scalability**	Capable of incorporating a large number of garbage sensors.