

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

Date	29 June 2025
Team ID	LTVIP2025TMID33805
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
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	Setup & Architecture	Set up Streamlit frontend with sidebar navigation
FR-2	Core Features Implementation	Implement Chat Assistant module using Granite LLM.
FR-3	Forecasting & Reporting Intelligence	Develop KPI Forecasting module using Linear Regression.
FR-4	Final Optimization & Presentation	Ensure clean UI messages and error handling.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should have a simple and user-friendly interface that is easy to navigate.
NFR-2	Security	All user data and API interactions must be securely handled to prevent unauthorized access.
NFR-3	Reliability	The application should function consistently and deliver accurate results without failure.
NFR-4	Performance	The system should provide responses to user inputs within an acceptable time frame.

NFR-5	Availability	The platform should be available and operational whenever users need to access it.
NFR-6	Scalability	The solution should support easy expansion to handle more users, data, or features in the future.