Project Design Phase - Solution Architecture

Date: 15 February 2025

Team ID: LTVIP2025TMID37298

Project Name: Sustainable Smart City Assistant Using Generative AI (IBM Granite LLM)

Maximum Marks: 4 Marks

# Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:  
- Find the best tech solution to solve existing business problems.  
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.  
- Define features, development phases, and solution requirements.  
- Provide specifications according to which the solution is defined, managed, and delivered.

For our project, the architecture includes the user interface (Streamlit), AI model (IBM Granite API), middleware communication logic, and optional database for logging queries.

An architecture diagram will be attached separately using tools like draw.io or Lucidchart.