

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	27-JUNE 2025
Team ID	LTVIP2025TMID29266
Project Name	Sustainable Smart City Assistant using IBM Granite LLM
Maximum Marks	5 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a developer, I want to collect smart city KPIs for model training	2	High	Tibirisetti Satish
Sprint-1	Data Collection	USN-2	As a developer, I want to load and verify the data format	1	Medium	Tibirisetti Satish
Sprint-1	Data Preprocessing	USN-3	As a developer, I want to handle missing values in smart city data	3	High	Sangani Kasu Raju
Sprint-1	Data Preprocessing	USN-4	As a developer, I want to encode categorical values properly	2	Medium	Sangani Kasu Raju
Sprint-2	Model Building (LLM/KPI)	USN-5	As a developer, I want to build a KPI forecasting	5	High	Singuluri Chandra Sagar

			model using LLM			
Sprint-2	Model Testing	USN-6	As a developer, I want to test model accuracy and performance	3	High	Sesetti Mohana Krishna
Sprint-2	Deployment & UI	USN-7	As a developer, I want to create a Gradio-based HTML UI	3	Medium	Sesetti Mohana Krishna
Sprint-2	Deployment	USN-8	As a developer, I want to deploy the app using Flask and IBM Granite LLM	5	High	Singuluri Chandra Sagar

#### Project Tracker, Velocity & Burndown Chart (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed
Sprint-1	8	5 Days	01 Feb 2025	05 Feb 2025	8
Sprint-2	16	5 Days	06 Feb 2025	10 Feb 2025	16

Velocity Calculation:

- Total Story Points: 24
- Total Sprints: 2
- Velocity =  $24 / 2 = 12$  Story Points per Sprint.