Project Planning Phase

Project Planning

(Product Backlog, Sprint Planning, Stories, Story Points)

Date	07 June 2025
Team ID	LTVIP2025TMID30991
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
Maximum Marks	5 Marks

Product Backlog & Sprint Schedule (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Member
Sprint-1	Data Collection	USN-01	As a developer, I can collect and organize smart city-related data from diverse sources to use in the AI assistant	2	High	Madduru Mani Teja
Sprint-1	Data Collection	USN-02	As a developer, I can load the data into my processing pipeline for initial use	1	High	Madduru Mani Teja
Sprint-1	Data Preprocessing	USN-03	As a developer, I can handle missing values in the dataset to improve data quality	3	High	Madduru Mani Teja
Sprint-1	Data Preprocessing	USN-04	As a developer, I can convert categorical data into usable numerical formats	2	Medium	Madduru Mani Teja

Sprint-2	Model Building	USN-05	As a developer, I can build an AI model using IBM Granite LLM to generate text-based responses	5	High	Madduru Mani Teja
Sprint-2	Model Evaluation	USN-06	As a developer, I can test the AI model for its accuracy and relevance	3	High	Madduru Mani Teja
Sprint-2	Frontend Development	USN-07	As a user, I can interact with the Gradio-based interface with labeled tabs and input fields	3	High	Madduru Mani Teja
Sprint-2	Deployment	USN-08	As a developer, I can deploy the assistant using Google Colab and Pyngrok for public access	5	High	Madduru Mani Teja

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Project Tracker, Velocity & Burn-down (4 Marks)

Sprint Tracking Table

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	8	5 Days	26 May 2025	30 May 2025	8	30 May 2025
Sprint-2	16	5 Days	01 June 2025	05 June 2025	16	05 June 2025

Velocity Calculation

Metric	Value
Total Story Points	24 (8 + 16)
Total Sprints	2
Velocity	**12 points/sprint**

- **Velocity per Day (avg)** = 12 / 5 = **2.4 Story Points per Day**