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

Date	20 June 2025
Team ID	LTVIP2025TMID37446
Project Name	Sustainable Smart-city AI Assistant using IBM Granite LLM
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation

Sprint	User Story s	Task / Feature	Story Points	Priority	Team Members
Sprint 1	US06	IBM Granite + FastAPI integration	8	High	Shaheera, Aamina
	US01	Chat Assistant core functionality	8	High	Shaheera, Sathwika
	US07	Deployment via Uvicorn & LocalTunnel	3	High	Aamina
	US05-A	Initial UI layout (Streamlit/HTML, Sidebar)	3	Medium	Amulya
Sprint 2	US02	Eco Tips generation module	5	High	Shaheera
	US03	KPI Forecasting (charts or ML predictions)	8	High	Aamina, Sathwika
	US04	Export Sustainability Report	5	Medium	Amulya
	US05-B	UI Enhancements: Logos, Themes, Styling	3	Medium	Amulya
Sprint 3	US08	Real-time energy/water stats (static/mock data)	5	Low	Shaheera
	US09	Usage Analytics dashboard	5	Low	Aamina
	US01/US03-Tune	Prompt tuning for Chat + KPI response accuracy	3	High	Shaheera, Sathwika

Project Tracker, Velocity & Burndown Chart:

Sprint	User Story	Task / Feature	Assigned To	Status	Story Points	Completion Date
Sprint 1	US06	Integrate IBM Granite with FastAPI	Shaheera, Syed Aamina	Completed	8	24-06-2025
Sprint 1	US01	Chat Assistant Logic	Shaheera, Sathwika	Completed	8	21-06-2025
Sprint 1	US07	Deploy with Uvicorn & LocalTunnel	Syed Aamina	Completed	3	25-06-2025
Sprint 1	US05-A	Initial UI Setup	Amulya	Completed	3	22-06-2025
Sprint 2	US02	Eco Tips Generator	Shaheera	Completed	5	26-06-2025
Sprint 2	US03	KPI Forecasting	Syed Aamina, Sathwika	Completed	8	25-06-2025
Sprint 2	US04	Export Sustainability Report	Amulya	Completed	5	24-06-2025
Sprint 2	US05-B	UI Enhancement (Logo, Design)	Amulya	Completed	3	23-06-2025
Sprint 3	US08	Real-time Stats Display	Shaheera	Completed	5	26-MM-2025
Sprint 3	US09	Usage Analytics Dashboard	Aamina	Completed	5	26-MM-2025
Sprint 3	Tune	Prompt Tuning for Chat/KPI	Shaheera, Sathwika	Completed	3	25-MM-2025
Sprint 3	INT-01	Final Integration & Testing	All	Completed	5	27-MM-2025
Sprint 3	UI-Polish	Final UI Polish and Doc Updates	Amulya, Sathwika	Completed	5	27-MM-2025

Average Velocity Calculation

Average Velocity=22+21+23/3=66/3=22 Story Points per Sprint

Burndown Chart:

Day / Milestone	Remaining Story Points	Ideal Progress	Actual Progress
Day 0 (Start)	66	66	66
End of Sprint 1	44	44	44
End of Sprint 2	23	22	23
End of Sprint 3	0	0	0

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://unhabitat.org/

AI for the Green Deal: Making Cities Smart and Sustainable
https://ec.europa.eu
Policy-oriented reference connecting AI innovation with sustainability in cities

Real-Time City? Big Data and Smart Urbanism
https://doi.org/10.1007/s10708-013-9516-8

Highlights how real-time AI and analytics enable sustainable smart urban decisions.