

Project Planning Phase

Date: 26 June 2025

Team ID: LTVIP2025TMID20299

Project Name: Sustainable Smart City Assistant Using IBM Granite LLM

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

Use the below template to create product backlog and sprint schedule

Product Backlog & Sprint Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	App Initialization	USN-1	Set up Streamlit app, virtual environment & .env config	2	High	All
Sprint-1	Watsonx Model Setup	USN-2	Connect to IBM Watsonx and validate API integration	2	High	Hari, Team
Sprint-2	Policy Summarizer	USN-3	Upload PDF/text → Generate summary via LLM	3	High	Hari
Sprint-2	Feedback Reporting	USN-4	Add category + description input → store/report	3	High	Team

			issue			
Sprint-3	KPI Forecasting	USN-5	Upload CSV → Use LLM to predict next trends	3	High	Hari
Sprint-3	Anomaly Detection	USN-6	Analyze uploaded CSV → Return anomaly explanation	3	Medium	Team
Sprint-4	Eco Tips Generator	USN-7	Input keyword → Generate 5 green-living tips via LLM	2	Medium	Hari
Sprint-4	Chat Assistant	USN-8	Implement chat_input → Return Watsonx-generated replies	4	High	Hari
Sprint-5	Dashboard + Icons	USN-9	Improve layout, icons, and descriptions across modules	2	Medium	All
Sprint-5	Final Testing & Deployment	USN-10	Validate all modules → Deploy to Streamlit Cloud	3	High	Hari

Project Tracker, Velocity & Burndown Chart (4 Marks)

Sprint	Total Story Points	Sprint Start Date	Sprint End Date	Story Points Completed	Sprint Release Date
Sprint-1	4	01 July 2025	06 July 2025	4	06 July 2025
Sprint-2	6	07 July 2025	12 July 2025	6	12 July 2025
Sprint-3	6	13 July 2025	18 July 2025	5	18 July 2025
Sprint-4	6	19 July 2025	24 July 2025	5	24 July 2025
Sprint-5	5	25 July 2025	30 July 2025	4	30 July 2025

Velocity:

Average Velocity = $(4 + 6 + 5 + 5 + 4) / 5 = 4.8$ story points per sprint