Project Planning Logic on Sustainable Smart-city Ai Assistant using IBM Granite LLM(Cityp-AI-rtner)

A Sprint fixed period or duration in which a team works to complete a set of tasks.An **Epic** is a **big task or project** that is too large to complete in one sprint. It is broken down into **smaller tasks (stories)** that can be completed over multiple sprints.

A **Story** is a small task . It is part of an **Epic**.A **Story Point** is a number that represents how much effort a story takes to complete. (usually in form of Fibonacci series)

1- Very Easy task
2- Easy task
3- Moderate task
5- Difficult task

Project Summary

- **Project Name:** CityP'AI'Rtner – Smart City Sustainability Assistant
- **Backend:** FastAPI (served via Uvicorn)
- **AI Model:** IBM Granite (ibm-granite/granite-3.3-2b-instruct)
- **Frontend:** Streamlit or HTML/JS

Sprint Planning Table

Sprint 1: Project Setup & Base Features

Task	Story Points	Assignee
Set up FastAPI project with Uvicorn	4 SP	Backend Developer
Integrate IBM Granite API	5 SP	AI Engineer
Design base frontend layout (Streamlit/UI)	4 SP	Frontend Developer
Add static Eco Tips module	4 SP	Full Stack Dev
Test FastAPI + Streamlit/HTML + model connection	2 SP	All Members
Total	**19 SP**	—

Sprint 2: AI Functionality and Core UX

Task	Story Points	Assignee
Build Chat Assistant using IBM Granite prompts	6 SP	AI Engineer
Create frontend input box + display responses (chat UI)	4 SP	Frontend Developer
Implement KPI Forecast logic (basic algorithm)	6 SP	Backend + AI Eng
Add routing in FastAPI for modular endpoints	2 SP	Backend Developer
Test Chat + KPI functionality	2 SP	Full Stack / QA
Total	**20 SP**	

Sprint 3: Reporting, Styling, Deployment

Task	Story Points	Assignee
Add Sustainability Report Generator	6 SP	Backend Developer
Final frontend styling (sidebar, colors, responsiveness)	4 SP	Frontend Developer
Deploy via Uvicorn with public access (LocalTunnel / Colab)	4 SP	Full Stack / DevOps
Final documentation (README, usage guide)	2 SP	All
Final integration testing	2 SP	All
Total	**18 SP**	

Summary

Item	Value
Total Sprints	3
Max Velocity Per Sprint	≤ 20 SP
Total Story Points	~57 SP
Team Members	4
Run Server	uvicorn main:app --reload /python main.py

Average Sprint Velocity Calculation

Average Velocity=19+20+18/3=573=19

Team's velocity is 19 story points per sprint.

Technologies Used

Layer	Tool/Tech
Backend	FastAPI + Uvicorn
Model	IBM Granite LLM
Frontend	Streamlit or HTML/JS
Hosting	Local + VS Code or Colab