**Project Planning Phase**

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

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| --- | --- |
| Date | 28 June 2025 |
| Team ID | LTVIP2025TMID30062 |
| Project Name | Sustainable Smart City Assistant Using IBM Granite LLM |
| Maximum Marks | 5 Marks |

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

Use the below template to create product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Data Collection & Integration | USN-1 | Gather city data (pollution, traffic, energy), integrate APIs | 8 | High | Kavya Priya, Kaveri |
| Sprint-2 | Feedback & Summarization Tools | USN-2 | Build citizen feedback form, implement document summarization with LLM | 10 | High | Lokitha, Chandra Sekhar |
| Sprint-3 | AI Services & Detection | USN-3 | Anomaly detection (pollution spikes), chatbot integration using Grante LLM | 13 | Low | Kaveri, Lokitha |
| Sprint-4 | Forecasting & Insights | USN-4 | Forecast key metrics (pollution, traffic, energy) using AI models | 9 | Medium | Chandra Sekhar, Kavya Priya |
| Sprint-4 | Dashboard & Deployment | USN-5 | Build FastAPI or Streamlit dashboard, deploy system, testing and documentation | 11 | High | Kavya Priya, Kaveri, Lokitha, |
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**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | 8 | 2 Days | 17-06-2025 | 18-06-2025 | 8 | 18-06-2025 |
| Sprint-2 | 10 | 3 Days | 19-06-2025 | 21-06-2025 | 10 | 21-06-2025 |
| Sprint-3 | 9 | 3 Days | 22-06-2025 | 24-06-2025 | 9 | 24-06-2025 |
| Sprint-4 | 13 | 3 Days | 25-06-2025 | 27-06-2025 | 13 | 27-06-2025 |
| Sprint-5 | 10 | 2 Days | 28-06-2025 | 29-06-2025 | 10 | 29-06-2025 |
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**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)



**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile[software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). 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.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](https://www.atlassian.com/agile/project-management)

[**https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software**](https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

[**https://www.atlassian.com/agile/tutorials/sprints**](https://www.atlassian.com/agile/tutorials/sprints)

[**https://www.atlassian.com/agile/project-management/estimation**](https://www.atlassian.com/agile/project-management/estimation)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)