Project Planning Phase

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

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| --- | --- |
| Date | 21 june 2025 |
| Team ID | LTVIP2025TMID32074 |
| Project Name | Sustainable Smart city using IBM Granite |
| Maximum Marks | 5 Marks |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| Sprint-1 | Backend API Setup and Model Integration | USN-1 | Set up API routes like `/chat`, `/tips`, `/summary` | 2 | High | Member A |
| Sprint-1 |  | USN-2 | Integrate Hugging Face Inference API (`google/gemma-2b-it`) | 3 | High | Member B |
| Sprint-1 |  | USN-3 | Format model responses for frontend readability | 2 | Medium | Member A |
| Sprint-1 |  | USN-4 | Basic API and model response testing | 2 | High | Member B |
| Sprint-2 | Frontend Development and Integration | USN-5 | Streamlit dashboard layout design | 3 | High | Member A |
| Sprint-2 |  | USN-6 | Interactive chat interface development | 3 | High | Member B |
| Sprint-2 |  | USN-7 | Backend API integration with frontend | 5 | High | Member A, B |
| Sprint-2 |  | USN-8 | Full application testing and debugging | 4 | High | Member A, B, C |

# Project Tracker, Velocity & Burndown Chart (4 Marks)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date (Actual) |
| Sprint-1 | 9 | 5 Days | 10 Feb 2025 | 14 Feb 2025 | 9 | 14 Feb 2025 |
| Sprint-2 | 15 | 5 Days | 15 Feb 2025 | 19 Feb 2025 | 15 | 19 Feb 2025 |

## Velocity Calculation

Total Story Points: 24

Total Sprints: 2

Team Velocity = 24 / 2 = 12 story points per sprint

## Burndown Chart

A burndown chart can be created using tools like Visual Paradigm or Atlassian Jira.  
X-axis: Sprint Days (Day 1 to Day 5)  
Y-axis: Remaining Story Points (Starts at 9 → 0 for Sprint 1, 15 → 0 for Sprint 2)

## References

* https://www.atlassian.com/agile/project-management
* https://www.atlassian.com/agile/tutorials/sprints
* https://www.atlassian.com/agile/tutorials/burndown-charts
* https://www.atlassian.com/agile/project-management/estimation