**Project Planning Phase**

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

**Agile Sprint Planning**

|  |  |
| --- | --- |
| **Date** | **25 june2025** |
| **Team ID** | **LTVIP2025TMID37165** |
| **Project Name** | **Sustainable Smart City Assistant AI by using IBM granite LLM** |
| **Max marks** | **5 marks** |

**📦 Product Backlog, Sprint Schedule, and Estimation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| **Sprint-1** | Data Collection | USN-1 | As a dev, I will collect datasets from official sources. | 2 | High |  |
| **Sprint-1** | Data Collection | USN-2 | As a dev, I will load the collected data into the system. | 1 | High |  |
| **Sprint-1** | Data Preprocessing | USN-3 | As a dev, I will handle missing values in the dataset. | 3 | Medium |  |
| **Sprint-1** | Data Preprocessing | USN-4 | As a dev, I will handle categorical variables. | 2 | Medium |  |
| **Sprint-2** | Model Building | USN-5 | As a dev, I will build and train a sentiment analysis model. | 5 | High |  |
| **Sprint-2** | Model Testing | USN-6 | As a dev, I will test the trained model with sample data. | 3 | High |  |
| **Sprint-2** | Deployment | USN-7 | As a dev, I will design working HTML pages. | 3 | Medium |  |
| **Sprint-2** | Deployment | USN-8 | As a dev, I will deploy the app using Streamlit/Flask. | 5 | High |  |

**📊 Project Tracker, Velocity & Burndown Chart**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed** |
| **Sprint-1** | 8 | 5 Days | 20 June 2025 | 24 June 2025 | 8 |
| **Sprint-2** | 16 | 5 Days | 25 June 2025 | 29 June 2025 | 16 |

**📈 \*\*Velocity Calculation\*\***

Total Story Points = 8 (Sprint 1) + 16 (Sprint 2) = 24

Number of Sprints = 2

Velocity = 24 / 2 = \*\*12 Story Points per Sprint\*\*

**\*\*Burndown Chart\*\***

📉 Burndown charts can be created using tools like Jira, Excel, or Visual Paradigm to track remaining work vs time.

