**Project Planning Phase**

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

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| --- | --- |
| Date | 15 June, 2025 |
| Team ID | LTVIP2025TMID36740 |
| Project Name | TrafficTelligence : Advanced Traffic Volume Estimation with Machine Learning |
| 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 | Project Setup & Infrastructure | USN-1 | Configure the project workspace by installing all essential libraries, tools, and frameworks required for development and testing. | 1 | Medium | Harsitha,sasikanth,  Suvarna,kavya |
| Sprint-1 | Model Training & Preprocessing | USN-2 | As a developer, I want to clean and preprocess traffic data so that it can be used to train the ML model. | 2 | High | Harsitha,sasikanth,  Suvarna,kavya |
| Sprint-2 | Model Integration & API | USN-3 | As a developer, I want to integrate the trained model and encoder into the Flask app to provide real-time predictions. | 2 | High | Harsitha,sasikanth,  Suvarna,kavya |
| Sprint-3 | Error Handling & Input Validation | USN-4 | As a user, I want error messages if I submit incorrect or incomplete data so I can correct it. | 2 | High | Harsitha,sasikanth,  Suvarna,kavya |

**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 | 20 | 6 Days | 9-jun-2025 | 11-jun-2025 | 20 | 9-jun-2025 |
| Sprint-1 | 20 | 6 Days | 12-jun-2025 | 16-jun-2025 | 20 | 12-jun-2025 |
| Sprint-2 | 20 | 6 Days | 16-jun-2025 | 21-jun-2025 | 20 | 16-jun-2025 |
| Sprint-3 | 20 | 6 Days | 23-jun-2025 | 28-jun-2025 | 20 | 23-jun-2025 |

**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)

