**Project Planning Phase**

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

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| --- | --- |
| Date | 15 June, 2025 |
| Team ID | LTVIP2025TMID59792 |
| 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 | **Adil, triveni,**  **Chandra vardhan** |
| 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 | **Adil, triveni,**  **Chandra vardhan** |
| 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 | **Adil, triveni,**  **Chandra vardhan** |
| 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 | **Adil, triveni,**  **Chandra vardhan** |

**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)

