**Project Planning Phase**

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

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| --- | --- |
| **Date** | **27 june 2025** |
| **Team ID** | **LTVIP2025TMID59902** |
| **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** | **Lakshmi Prasanna, Poojitha Rayal** |
| **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** | **Adithya Vardhan,Vijaya kumar** |
| **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** | **Vijaya kumar** |
| **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** | **Vijaya kumar , Adithya 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)**

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