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

Date	15 June, 2025
Team ID	LTVIP2025TMID59783
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	Sunil, Charan, Partheev
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	Aswini, Partheev
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	Aswini
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	Aswini, Sunil, Charan

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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$