

## Project Planning Phase

### Project Planning (Product Backlog, Sprint Planning, Stories, Story points)

Date	25 June 2025
Team ID	LTVIP2025TMID32460
Project Name	Traffic Telligence: Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	4Marks

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data collection	USN-1	. As a developer I want to collect traffic data set	2	High	
Sprint-1	Data preprocessing	USN-2	I want to collect and handle missing data categorical values	1	High	
Sprint-2	Feature engineering	USN-3	I want to generate useful features from raw data	2	Low	
Sprint-1	Model building	USN-4	I want to train machine learning model to predict	2	Medium	
Sprint-1	Motel evaluation	USN-5	I want to evaluate the fine tune	1	High	

			model's accuracy			
Sprint-3	Frontend interface	USN-6	I want to input values through user friendly html medium	3	Medium	
Sprint-3	Deployment	USN-7	To I want the solution to be deployed on the web through flask	3	High	

#### Project Tracker, Velocity & Burn down Chart:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points	Sprint Release date
Sprint-1	13	5 Days	01 July 2025	05 July 2025	13	05 July 2025
Sprint-2	14	5 Days	06 July 2025	10 July 2025	14	10 July 2025
Sprint-3	13	5 Days	11 July 2025	15 July 2025	13	15 July 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

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

day)

**Burn down Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.