

Project Planning Phase

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

Date: 27 June 2025

TeamID:LTVIP2025TMID35728

Project Name:Trafficelligence:Advanced Traffice Volume Estimation With Machine

Maximum Marks:5 Marks

Product Backlog(Sample):

ID	User Story	Story Points	Priority
1	As a city planner, I want to view real-time traffic data from multiple sensors so I can monitor congestion.	8	High
2	As a traffic analyst, I want historical traffic volume trends for the past year.	5	Medium
3	As a transport authority, I want predictive analytics to plan alternate routes during peak hours.	8	High
4	As a system admin, I want sensor health diagnostics to ensure consistent data flow.	3	Low
5	As a dashboard user, I want a visual map-based interface for easier understanding.	5	Medium

Sprintplanning table:

Sprint 1: Focus on setting up data collection from traffic sensors and preprocessing the data for machine learning models.

Sprint 2: Train the initial machine learning model using the preprocessed traffic data.

Sprint 3: Develop and integrate a real-time dashboard to visualize traffic volume insights.

Velocity & Burndown Chart (4 Marks)

Velocity Calculation:

Total completed story points in 2 sprints: 18

Duration per sprint: 6 days

Average velocity: $18 \div 12 = 1.5$ story points/day

Burndown Chart:

Refer to: Visual Paradigm Burndown Chart Generator