

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

| | |
|---------------|---|
| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID32654 |
| Project Name | TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning |
| Maximum Marks | 5 Marks |

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 | Input entry | USN-1 | As a user, I can enter all the required values in the required fields. | 8 | High | 3 |
| Sprint-2 | Input options | USN-2 | As a user, I will get the options allowed for fields | 8 | Low | 3 |
| Sprint-3 | Traffic estimation | USN-3 | As a user, I can know the estimated traffic value. | 8 | High | 3 |

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 | 8 | 7 Days | 5 June 2025 | 11 June 2025 | 8 | 11 June 2025 |
| Sprint-2 | 8 | 7 Days | 12 June 2025 | 18 June 2025 | 8 | 28 June 2025 |
| Sprint-3 | 8 | 10 Days | 18 June 2025 | 27 June 2025 | 8 | 27 June 2025 |

Velocity:

We have a 24-day sprint duration

Velocity of the team is 8 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = 24/8 = 3$$

Burndown 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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>