

Project Planning Phase

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

Date	27 june 2025
Team ID	LTVIP2025TMID38854
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	Data Collection	USN-1	As a user, I want the system to collect historical traffic data for accurate volume estimation.	2	High	Aparna devi baswa
Sprint-1	Data Preprocessing	USN-2	As a developer, I want to handle missing and categorical values to ensure model accuracy.	3	High	Abhinav Manikanta Yedida
Sprint-1	Data Cleaning	USN-3	As a developer, I want to convert date and time into useful numeric features.	2	Low	Geddada Sri Harika
Sprint-2	Model Building	USN-4	As a developer, I want to train and validate models to find the best performing one	5	Medium	Aparna devi baswa
Sprint-2	Model Testing	USN-5	As a developer, I want to test the model with validation data to check prediction accuracy.	3	High	Andraju Navya Sri
Sprint-2	Deployment	USN-6	As a user, I want a web interface to input features and get traffic volume predictions.	3	High	Aparna Devi Baswa
Sprint-2	Flask Integration	USN-7	As a developer, I want to deploy the model using Flask to make it usable online.	5	High	Aparna Devi Baswa

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	12	6 Days	01/6/2025	5/6/2025	12	5 june 2025
Sprint-2	16	6 Days	05/6/2025	10 june 2025	16	10 june 2025
Sprint-3	-	-	-	-	-	-
Sprint-4	-	-	-	-	-	-

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)

$$AV = \frac{(12+16)}{2} = 14$$

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>

