

Project Planning Phase

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

Date	22 June 2025
Team ID	LTVIP2025TMID41713
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	Pre requisites	USN-1	As a user, I can install the Anaconda navigator software	5	Medium	<ol style="list-style-type: none"> 1. Vusa Leela Venkata Sai Pavan 2. Shaik Ruksana 3. Syed Asha Sulthana 4. Teegala Navya Gopika
Sprint-1	Data Collection.	USN-2	As a user, I will Collect the dataset or Create the dataset	4	Low	<ol style="list-style-type: none"> 1. Vusa Leela Venkata Sai Pavan 2. Shaik Ruksana 3. Syed Asha Sulthana 4. Teegala Navya Gopika
Sprint-2	Data Pre-processing.	USN-3	As a user, I can <ul style="list-style-type: none"> • Import the Libraries. • Importing the dataset. • Checking for Null Values. • Data Visualization. • Taking care of Missing Data. 	2	High	<ol style="list-style-type: none"> 1. Vusa Leela Venkata Sai Pavan 2. Shaik Ruksana 3. Syed Asha Sulthana

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			<ul style="list-style-type: none"> Feature Scaling. Splitting Data into Train and Test. 			4. Teegala Navya Gopika
Sprint-2	Model Building	USN-4	As a user, I can <ul style="list-style-type: none"> Import the model building Libraries Initializing the model Training and testing the model Evaluation of Model Save the Model 	4	Medium	1. Vusa Leela Venkata Sai Pavan 2. Shaik Ruksana 3. Syed Asha Sulthana 4. Teegala Navya Gopika
Sprint-3	Application Building	USN-5	As a user, I can <ul style="list-style-type: none"> Create an HTML file Build a Python Code Run the App 	3	High	1. Vusa Leela Venkata Sai Pavan 2. Shaik Ruksana 3. Syed Asha Sulthana 4. Teegala Navya Gopika
Sprint-3	Output Process	USN-6	As a user, <ul style="list-style-type: none"> Copy the HTTP link and paste it in google link tab, it will display the form page Enter the values as per the form and click on predict button It will redirect to the page based on prediction output The output will be displayed in the prediction text as Estimated Traffic volume is in units. 	1	Medium	5. Vusa Leela Venkata Sai Pavan 6. Shaik Ruksana 7. Syed Asha Sulthana Teegala Navya Gopika

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	16 June 2025	21 June 2025	20	21 June 2025
Sprint-2	20	6 Days	18 June 2025	23 June 2025	20	23 June 2025
Sprint-3	20	6 Days	20 June 2025	25 June 2025	20	25 June 2025
Sprint-4	20	6 Days	22 June 2025	27 June 2025	20	27 June 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)

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

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>