

## Project Planning Phase

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

Date	14 Nov 2022
Team ID	PNT2022TMID27545
Project Name	Machine learning based Vehicle performance Analyzer
Maximum Marks	8 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	Data processing	USN-1	As a user, I can process raw data and process manual analysis	30	High	Sneha Varshini V Francis Jasper Terence R Aswath Jude J Karthika V Rajasekar G
Sprint-2	Model Building	USN-2	As a user, I can get the predicted performance of the vehicle using the data	20	Low	Sneha Varshini V Francis Jasper Terence R Aswath Jude J Karthika V Rajasekar G
Sprint-3	Web page design	USN-3	As a user, I am able to access the website and can get the predicted performance of the vehicle	30	Medium	Sneha Varshini V Francis Jasper Terence R Aswath Jude J Karthika V Rajasekar G
Sprint-4	Result	USN-4	As a user, I expect the prediction is accurate	20	High	Sneha Varshini V Francis Jasper Terence R Aswath Jude J Karthika V Rajasekar G

**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	2 Days	01 Nov 2022	03 Nov 2022	30	12 Nov 2022
Sprint-2	20	4 Days	04 Nov 2022	07 Nov 2022	20	12 Nov 2022
Sprint-3	20	6 Days	08 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	5 Days	13 Nov 2022	18 Nov 2022	20	18 Nov 2022

**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)

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

i)  $AV = 20/2 = 10$

ii)  $AV = 20/4 = 5$

iii)  $AV = 20/6 = 3.34$

iv)  $AV = 20/5 = 4$

### Burndown Chart:

A burndown 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.

## Burn down Chart

