Project Planning

Project Planning Template

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

Date	3 November, 2022
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 perform manual analysis.	30	High	Aakriti Abhishek Hoo Dharshana Jayapradhap
Sprint-2	Model building	USN-2	As a user, I can get the predicted performance of the vehicle using the given data.	20	Low	Aakriti Abhishek Hoo Dharshana Jayapradhap
Sprint-3	Web Page design	USN-3	As a user, I am able to view the website and I can get the predicted performance of the vehicle using the given data.	30	High	Aakriti Abhishek Hoo Dharshana Jayapradhap
Sprint-4	Result	USN-4	As a user, I expect the prediction is highly accurate.	20	High	Aakriti Abhishek Hoo Dharshana Jayapradhap

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points Completed	Sprint Release Date
Sprint-1	30	6 days	21 Oct 2022	26 Oct 2022	30	26 Oct 2022
Sprint-2	20	6 days	28 Oct 2022	03 Nov 2022	20	03 Nov 2022
Sprint-3	20	6 days	04 Nov 2022	09 Nov 2022	20	09 Nov 2022
Sprint-4	20	6 days	11 Nov 2022	16 Nov 2022	20	16 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).

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

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.