Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID27752
Project Name	Machine Learning based Vehicle Performance Analyzer
Maximum Marks	8 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 Preparation	USN-1	Collecting Car dataset and create an MI model to predict the car performance.	30	High	Abdulvahith.A.L Naveenbalaji.N.T Haranpranav.B.S Shyam.K.S
Sprint-2	Model Building	USN-2	As a user, I can get the predicted performance of the car using the MI model	20	Medium	Abdulvahith.A.L Naveenbalaji.N.T Haranpranav.B.S Shyam.K.S
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 car using the given data.	30	High	Abdulvahith.A.L Naveenbalaji.N.T Haranpranav.B.S Shyam.K.S
Sprint-4	Expected Outcome	USN-4	As a user, I expect the prediction is highly accurate.	20	High	Abdulvahith.A.L Naveenbalaji.N.T Haranpranav.B.S Shyam.K.S

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	30	6 Days	01 Nov 2022	03 Nov 2022	30	13 Nov 2022
Sprint-2	20	6 Days	04 Oct 2022	06 Nov 2022	20	13 Nov 2022
Sprint-3	30	6 Days	07 Nov 2022	12 Nov 2022	30	15 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	18 Nov 2022	20	20 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)

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

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.