Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	2 November 2022
Team ID	PNT2022TMID37526
Project Name	Car Resale Value Prediction
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
Sprint-1	Pre-process data	USN-1	Collect Dataset	1	Low
Sprint-1		USN-2	Import required libraries	1	Low
Sprint-1		USN-3	Read and clean data sets	2	Low
Sprint-2	Model building	USN-1	Split data into independent and dependent variables	3	Medium
Sprint-2		USN-2	Apply using regression model	3	Medium
Sprint-3	Application building	USN-1	Build python flask application and HTML page	5	High
Sprint-3		USN-2	Execute and test	5	High
Sprint-4	Training the model	USN-1	Train machine learning model	5	High
Sprint-4		USN-2	Integrate flask	5	High

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	02 Nov 2022	05 Nov 2022	20	10 Nov 2022
Sprint-2	20	6 Days	04 Nov 2022	05 Nov 2022	20	12 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 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.