Project Planning Phase

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

Date	17 November 2022
Team ID	PNT2022TMID09388
Project Name	Car Resale Value Prediction

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-process data	USN-1	Collect Dataset	1	Low	Shriraaman, Shurti,Swathi, Vasanth
Sprint-1		USN-2	Import required libraries	1	Low	Shriraaman, Shurti,Swathi, Vasanth
Sprint-1		USN-3	Read and clean data sets	2	Low	Shriraaman, Shurti,Swathi, Vasanth
Sprint-2	Model building	USN-1	Split data into independent and dependent variables	3	Medium	Shriraaman, Shurti,Swathi, Vasanth
Sprint-2		USN-2	Apply using regression model	3	Medium	Shriraaman, Shurti,Swathi, Vasanth
Sprint-3	Application building	USN-1	Build python flask application and HTML page	5	High	Shriraaman, Shurti,Swathi, Vasanth
Sprint-3		USN-2	Execute and test	5	High	Shriraaman, Shurti,Swathi, Vasanth
Sprint-4	Training the model	USN-1	Train machine learning model	5	High	Shriraaman, Shurti,Swathi, Vasanth
Sprint-4		USN-2	Integrate flask	5	High	Shriraaman, Shurti,Swathi, Vasanth

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	22 Oct 2022	27 Oct 2022	20	27 Oct 2022
Sprint-2	20	6 Days	29 Oct 2022	03 Nov 2022	20	03 Nov 2022
Sprint-3	20	6 Days	05 Nov 2022	10 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	12 Nov 2022	17 Nov 2022	20	17 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.