Project Planning Phase

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

Date	15 October 2022
Team ID	PNT2022TMID21127
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	Team Members
Sprint-1	Pre-process the data	USN-1	Collect Dataset	1	Low	Vallarasu R
Sprint-1		USN-2	Import required libraries	1	Low	Vallarasu R
Sprint-1		USN-3	Read and Clean dataset	3	Medium	Vallarasu R
Sprint-1	Model Building	USN-1	Split data into independent and dependent variables	3	Medium	Narendran G
Sprint-2		USN-2	Apply using regression model	3	Medium	Nikhil Madhav M
Sprint-2	Application Building	USN-1	Build Python Flask Application and HTML page	3	Medium	Narendran G
Sprint-2		USN-2	Execute and fest	3	Medium	Narendran G
Sprint-2	Train the Model	USN-1	Train machine learning model	3	Medium	Sudharsan K
Sprint-3		USN-2	Integrate flask	3	Medium	Sudharsan K
Sprint-3	Registration	USN-1	User can register for the car resale value prediction application by entering my email id, password and confirming my password.	5	High	Nikhil Madhav M
Sprint-3		USN-2	User will receive confirmation email once I have	5	High	Sudharsan K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			registered for the application			
Sprint-3		USN-3	User can register for the application through google	1	Low	Sudharsan K
Sprint-4		USN-4	User can register for the application through Gmail	3	Medium	Narendran G
Sprint-4	Login	USN-5	User can log into the application by entering email & password	5	High	Nikhil Madhav M
Sprint-4	Dashboard	USN-6	User can access the dashboard after login and view the details about different models of used and used cars	5	High	Vallarasu R

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	8	2 Days	01 Nov 2022	02 Nov 2022	8	02 Nov 2022
Sprint-2	12	4 Days	03 Nov 2022	06 Nov 2022	10	07 Nov 2022
Sprint-3	14	5 Days	07 Nov 2022	11 Nov 2022	11	11 Nov 2022
Sprint-4	13	7 Days	12 Nov 2022	18 Nov 2022	3	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)

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

Sprint - 1 (AV) = 8/2 = 4

Sprint - 2 (AV) = 12/4 = 3

Sprint - 3 (AV) = 14/5 = 2.8

Sprint - 4 (AV) = 13/7 = 1.8

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.