Project Planning Phase

Date	22 October 2022
Team ID	PNT2022TMID14160
Project Name	Project – Car Resale Value Prediction
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	Dataset	USN-1	Downloading the dataset	5	High	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-1		USN-2	Visualizing the dataset	2	Low	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-1		USN-3	Pre-process the dataset	3	Medium	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-2	User Interface	USN-4	Random Forest Regressor model building	5	High	Sakthivel K Saminathan A Sujith J G Vijesh S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-5	Model Integration with flask	5	High	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-2		USN-6	Build HTML Pages	3	Medium	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-3	Required inputs from User	USN-7	Dashboard accessibility	5	High	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-3		USN-8	Select the factors of car	1	Low	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-3		USN-9	Required factors are filled and car resale value is predicted	5	High	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-4	Deploy the website	USN-10	Register on IBM Cloud	1	Low	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-4		USN-1	Train the ML model on IBM Cloud	5	Medium	Sakthivel K Saminathan A Sujith J G Vijesh S
Sprint-4		USN-12	Deploy the website on IBM Cloud	5	High	Sakthivel K Saminathan A Sujith J G Vijesh 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	10	6 Days	25 Oct 2022	30 Oct 2022	10	30 Oct 2022
Sprint-2	13	6 Days	01 Nov 2022	06 Nov 2022	13	06 Nov 2022
Sprint-3	11	6 Days	08 Nov 2022	13 Nov 2022	11	13 Nov 2022
Sprint-4	11	6 Days	15 Nov 2022	20 Nov 2022	11	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)

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

VELOCITY OF THE PROJECT – CAR RESALE VALUE PREDICTION

Sprint-1 = 10/6 = 1.66

Sprint-2 = 13/6 = 2.16

Sprint-3 = 11/6 = 1.83

Sprint-4 = 11/6 = 1.83

Total Velocity = 12.2 /4 = 1.87

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.