Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID00170
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Sanjana Suresh
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sharanya N
Sprint-1	Registration	USN-3	As a user, i can register for the application through google	1	Low	Vijay Adhira
Sprint-1	Login	USN-1	As a user, I can log into the application by entering email & password	2	High	Rose Mary C
Sprint-2	Dashboard	USN-1	As a user I fill in the details of the car I want to sell or the details of the type of car I want to purchase	3	High	Sanjana Suresh Rose Mary C
Sprint-2	Pre-process data	USN-1	Collect dataset	2	High	Sharanya N Vijay Adhira
		USN-2	Import libraries	1	Medium	Sanjana Suresh Rose Mary C
		USN-3	Read and clean dataset	2	High	Sharanya N Vijay Adhira
Sprint-3	Model-Building	USN-1	Split data into dependent and independent variables	2	High	Sharanya N Vijay Adhira
		USN-2	Choose an appropriate model for building (random forest regression)	2	High	Sanjana Suresh Rose Mary C

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Application building	USN-1	Build a flask application and HTML page. Deploy the ML model	2	High	Sanjana Suresh Rose Mary C
		USN-2	Execute and test	2	Medium	Sharanya N Vijay Adhira
Sprint-4	Train the model	USN-1	Finally train the model and deploy the application	3	Medium	Rose Mary C Sharanya N
Sprint-4	Result	USN-1	The result of the price predicted is visible to the user	2	High	Sanjana Suresh Vijay Adhira

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	6	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022
Sprint-2	8	6 Days	31 Oct 2022	05 Nov 2022	8	05 Nov 2022
Sprint-3	8	6 Days	07 Nov 2022	12 Nov 2022	8	12 Nov 2022
Sprint-4	5	6 Days	14 Nov 2022	19 Nov 2022	5	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)

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

AV = Sprint duration/ velocity

Sprint Duration = 6 days

AV(Sprint-1)= 6/6= 1 ⇒ 1

AV(Sprint-2)= 8/6= 1.33 ⇒ 1

AV(Sprint-3)= 8/6= 1.33 ⇒ 1

AV(Sprint-4)= 5/6= 0.83 ⇒ 1

AV(total)= 27/24 = 1.125 ⇒ 1

Burndown Chart: