Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID08674
Project Name	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 reading and Preprocessing	USN-1	Cleaning the dataset and splitting to dependent and independent variables.	2	High	
Sprint-2	Building the model	USN-2	Choosing the appropriate model for building and saving the model as pickle file	1	High	
Sprint-3	Application building	USN-3	Using flask deploying the ML model	2	Medium	
Sprint-4	Train the model in IBM	USN-4	Finally train the model on IBM cloud and deploy the application	2	Medium	

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	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint 2	20	6 days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint 3	20	6 days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint 4	20	6 days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity

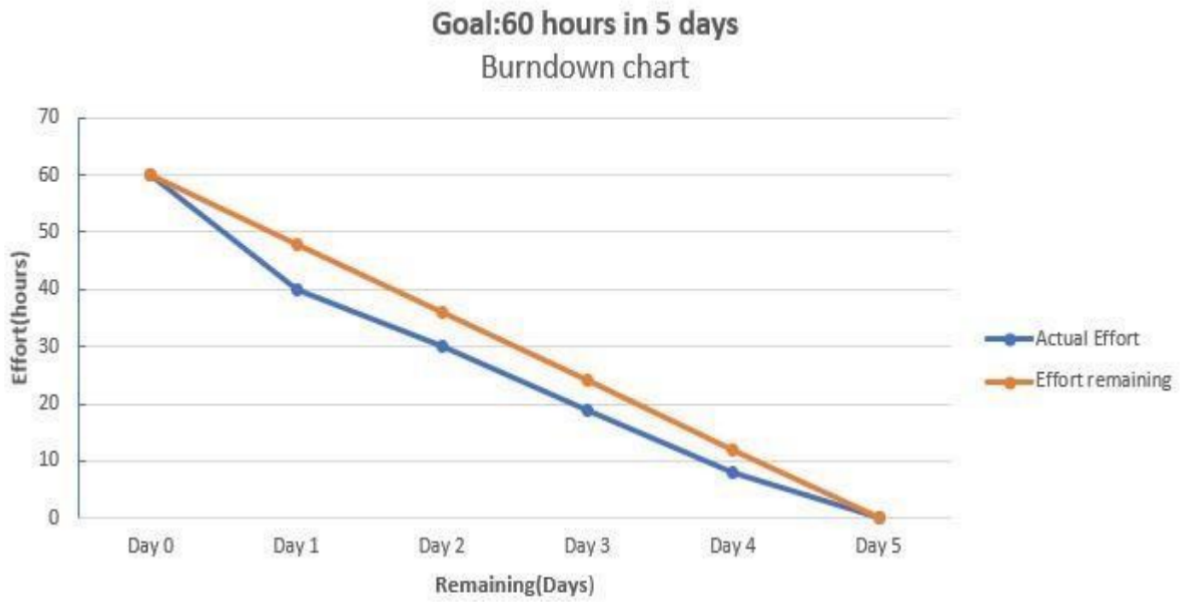
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

Sprint 1 - 1 user stories x 20 story points = 20
Sprint 2 - 1 user stories x 20 story points = 20
Sprint 3 - 1 user stories x 20 story points = 20
Sprint 4 - 1 user stories x 20 story points = 20
Total - 80 Average sprint velocity is 80 ÷ 4 = 20

Burndown Chart

A burndown 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, burndown charts can be applied to any project containing measurable progress over time.


Goal:60 hours in 5 days
Burndown chart
70
60
50
40
30
20
10
0
Effort(hours)
Day 0
Day 1
Day 2
Day 3
Day 4
Day 5
Remaining(Days)
Actual Effort
Effort remaining