Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID15449
Project Name	Project - Machine Learning based Vehicle Performance Analyzer
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	3	High	Biratheep S Jerome Edwin Karthikeyan S Kishore S
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	3	High	Biratheep S Jerome Edwin Karthikeyan S Kishore S
Sprint-2		USN-3	As a user, I can register for the application through Gmail	2	Medium	Biratheep S Jerome Edwin Karthikeyan S Kishore S
Sprint-2	Login	USN-4	As a user, I can log into the application by entering email & password	3	High	Biratheep S Jerome Edwin Karthikeyan S Kishore S
Sprint-2	Dashboard	USN-5	As a user, I can allow him to check the performance of the vehicle.	3	High	Biratheep S Jerome Edwin Karthikeyan S Kishore S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Design	USN-6	As a user, I can able to enter the data of the vehicle.	2	Medium	Biratheep S Jerome Edwin Karthikeyan S Kishore S
Sprint-3	Result	USN-7	As a user, I can able to get the predicted performance of the vehicle.	3	High	Biratheep S Jerome Edwin Karthikeyan S Kishore S
Sprint-4	Result	USN-8	As a user, I expect the prediction is highly accuracy.	2	Medium	Biratheep S Jerome Edwin Karthikeyan S Kishore S
Sprint-4	Feedback	USN-9	As a user, I can able to get the feedback.	2	High	Biratheep S Jerome Edwin Karthikeyan S Kishore 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	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	5	6 Days	07 Nov 2022	12 Nov 2022	5	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)

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)	Average velocity
Sprint-1	6	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022	4
Sprint-2	8	6 Days	31 Oct 2022	05 Nov 2022	8	05 Nov 2022	3
Sprint-3	5	6 Days	07 Nov 2022	12 Nov 2022	5	12 Nov 2022	4.8
Sprint-4	5	6 Days	14 Nov 2022	19 Nov 2022	5	19 Nov 2022	4.8

No of Days = 6+6+6+6 = 24

Total story points = 6 +8+5+5 =24

Average velocity = 24/24 = 1

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.