Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID44775
Project Name	Machine learning based car 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 name , email and car information..	5	High	Nishanth R Sai Abhishek M Naman Mehta Diyanesh Rohan
Sprint-1	Login	USN-2	As a user, I will be able to login	5	Medium	
Sprint-1	Input page	USN-3	As a user, I should be able to give input	5	High	
Sprint-2	Data pre-processing	USN-4	Processing the raw data for prediction	10	High	Nishanth R Sai Abhishek M Naman Mehta Diyanesh Rohan
Sprint-2	Model Building for prediction	USN-5	Building model for accurate performance prediction	10	High	
Sprint-3	Integrate the model with Flask	USN-6	The model needs to be integrated with front - end	20	High	Nishanth R Sai Abhishek M Naman Mehta Diyanesh Rohan
Sprint-4	Train the model on IBM Watson	USN-7	Model needs to be trained for accurate prediction	20	High	Nishanth R Sai Abhishek M Naman Mehta Diyanesh Rohan

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		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

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

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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts