Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID35586
Project Name	TRIP BASED FUEL CONSUMPTION PREDICTION IN MODERN FLEET VEHICLES USING MACHINE LEARNING
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.	4	High	Dhileepan S, Prateek Kumar
Sprint-1		USN-2	As a user, I will receive verification email once I have registered for the application	4	High	Ashok G
Sprint-1		USN-3	As a user, I can register for the application through Gmail	2	Medium	Dhinu Praveen
Sprint-2	Login	USN-4	As a user, I can log into the application by entering email & password	2	High	Ashok G, Dhinu Praveen
Sprint-3	Dashboard	USN-5	As a user, I can make a new prediction by filling the required vehicle details	4	High	Dhileepan S
Sprint-3		USN-6	As a user, I can view previous predictions tabs	2	Medium	Prateek Kumar
Sprint-2	Build Model	USN-7	Pre-process and clean the dataset	2	High	Dhinu Praveen
Sprint-2		USN-8	Build a ML model using the cleaned dataset	6	High	Dhileepan S, Ashok G
Sprint-3	Deploy Model	USN-9	Deploy model using flask	4	High	Prateek Kumar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Result Visualization	USN-10	Visualize the result using various graphs	2	Medium	Dhinu Praveen
Sprint-4	Suggestion for Improvement	USN-11	Suggest best practises and improvements based on results	2	Low	Ashok G
Sprint-4	User Interface	USN-12	UI/UX improvements with images and animations	4	Medium	Prateek Kumar
Sprint-4	Documentation	USN-13	User manual guide for new users and documentation for developers	4	High	Dhilleepan S, Dhinu Praveen

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	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	24 Oct 2022	29 Oct 2022	8	31 Oct 2022
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	12	5 Nov 2022
Sprint-3	12	6 Days	07 Nov 2022	12 Nov 2022	10	14 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	12	18 Nov 2022

Average 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 = Velocity / Sprint Duration

Sprint	Average Velocity
Sprint 1	1.66
Sprint 2	1.66
Sprint 3	2
Sprint 4	1.66

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.