Project Planning Phase

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

Team ID	**PNT2022TMID39504**
Project Name	**Predicting the energy output of wind turbine based on weather condition**

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Members
Sprint-1	Information about wind energy	USN-1	As a user I have learned about wind energy	It provides short and good information wind energy	Low	Suji.G
Sprint-1		USN-2	As a user I can know about wind turbine	It is useful in understand the wind energy	Low	Monika.S
Sprint-2	Predicting Energy Wind Output	USN-3	I can able to predict the wind energy output	It Provides accurately the wind speed	High	Anandhi.Y
Sprint-2		USN-4	I can get energy output for the wind	It is help so I can easily predict energy output	High	Muthamizhselvi. N
Sprint-2	Weather Checking	USN-5	I can check the weather of my state.	It provides weather condition in different states	Medium	Monika.S
		USN-6	I can check the weather condition for windmill	It provides weather condition and it helps in predicting energy output	Medium	Muthamizhselvi.N

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Project Tracker, Velocity & Burndown Chart:

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	06 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	15 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	20 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)

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

Burn down Chart:

Days	Goal	Done	Goal velocity	Remaining
0	6	4	1.5	2
7	12	3	3	3
13	18	2	5	4
19	24	1	7	5
25	30	0	9	6