Project Planning Phase

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

Date	24 October 2022
Team ID	PNT2022TMID45145
Project Name	Predicting the energy output of wind turbine based on weather condition
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	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	Jegan V
Sprint-1		USN-2	As a user I can know about wind turbine	It useful in understand the wind energy	Low	Dinesh Raja RS
Sprint-2	Predicting Energy Wind Output	USN-3	I can able to predict the wind energy output	It Provides accurately the wind speed	High	Jeeva B
Sprint-2		USN-4	I can get energy output for the wind	It is help so I can easily predict energy output	High	Dhinesh Kumar R
Sprint-2	Weather Checking	USN-5	I can check the weather of my state.	It provides weather condition in different states	Medium	Dinesh Raja RS
		USN-6	I can check the weather condition for windmill	It provides weather condition and it helps in predicting energy output	Medium	Jeeva B

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	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)

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

Burndown 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