Project Planning Phase

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

Date	24 October 2022
Team ID	PNT2022TMID18314
Project Name	Predicting the energy output of wind
	turbine based on weather conditions.
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	Data Preparation	USN-1	Collecting wind dataset and pre-processing it	20	High	Arunagirinathan Harish B
Sprint-2	Model Building	USN-2	Create an ML model to predict energy output	5	Medium	Arjun V
Sprint-2	Model Evaluation	USN-3	Calculate the performance, error rate, and complexity of the ML model and evaluate the dataset based on the parameter that the dataset consists of.	5	Medium	Ganta Veda Mouli
Sprint-2	Model Deployment	USN-4	As a user, I need to deploy the model and need to find the results.	10	Medium	Arjun V
Sprint-3	Web page (Form)	USN-5	As a user, I can use the application by entering the wind dataset to analyze or predict the results.	20	Medium	Arunagirinathan Harish B
Sprint-4	Dashboard	USN-6	As a user, I can	20	High	Arjun V Ganta

predict the energy output by clicking the submit button and the application will show weather	Veda Mouli
prediction.	

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	03 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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.

