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

Date	24 October 2022
Team ID	PNT2022TMID28461
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	Rajashree G D
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	Monisha N
Sprint-1		USN-3	As a user, I can register for the application through Phone number	2	Low	Sneha V
Sprint-1		USN-4	As a user, I can register for the application through Gmail	3	Medium	Timothy Eric Dare J

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Login(User)	USN-5	As a user, I can log into the application by entering email & password.	5	High	Vijaya Raju R
Sprint-2	Dashboard	USN-6	Once I have logged in, I can see my dashboard.	6	Medium	Sneha V
Sprint-2	Web access	USN-7	As a customer I can access the website to predict the turbine power.	7	High	Rajashree G D
Sprint-2	Prediction	USN=8	As a customer when I enter the weather details the website should predict the approximate turbine power.	7	High	Monisha N
Sprint-3	Analysis	USN-9	As a customer, I wish to store my predictions and make analysis.	10	Medium	Vijaya Raju R
Sprint-3	Security	USN-10	As a customer I expect my data to be secured.	10	Medium	Timothy Eric Dare J

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Database Access	USN-11	A Administrator, I should maintain the website. And update the website regularly.	20	Low	Rajashree G D

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	6 Nov 2022	11 Nov 2022	20	11 Nov 2022
Sprint-2	20	6 Days	10 Nov 2022	13 Nov 2022	20	13 Nov 2022
Sprint-3	20	6 Days	17 Nov 2022	22 Nov 2022	20	22 Nov 2022
Sprint-4	20	6 Days	24 Nov 2022	30 Nov 2022	20	30 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.