Project Planning Phase
Sprint Delivery Planning

Date	18 October 2022
Team ID	PNT2022TMID35179
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)

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	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-1		USN-3	As a user, I can register for the application using phone number	2	Low	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-1		USN-4	As a user, I can register for the application through Gmail	3	Medium	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Avantika S Shruthi G Sweta C Subhiksha S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Dashboard	USN-6	Once I have logged in, I can see my dashboard.	6	Medium	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-2	Web Access	USN-7	As a customer I can access the website to predict the turbine power.	7	High	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-2	Prediction	USN-8	As a customer when I enter the weather details the website should predict the approximate turbine power.	7	High	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-3	Analysis	USN-9	As a customer, I wish to store my predictions and make analyses.	10	Medium	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-3	Security	USN-10	As a customer I expect my data to be secured.	10	Medium	Avantika S Shruthi G Sweta C Subhiksha S
Sprint-4	Database Access	USN-11	As an administrator, I should maintain the website and update the website regularly.	20	Low	Avantika S Shruthi G Sweta C Subhiksha S

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		
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 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 burndown 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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/
https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:
https://www.atlassian.com/agile/project-management
https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software
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https://www.atlassian.com/agile/tutorials/burndown-charts