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

Date	25 October 2022
Team ID	PNT2022TMID26144
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 and password, and confirming my password.	5	High	BALAJI S
Sprint-1		USN-2	As a user, I can register for the application through a Mobile number.	3	Low	ARAVINDAN S
Sprint-1		USN-3	As a user, I can register for the application through Gmail	4	Medium	ARAVIND NAGARAJAN R
Sprint-1	Login	USN-4	As a user, I can log into the application by entering my email & password	5	High	ALDRIN JEFFERSON R
Sprint-2	Select City	USN-5	As a user, I should select the city to find the weather details of that city.	5	High	BALAJI S
Sprint-2	Weather Details	USN-6	As a user, I can view the current weather conditions of the selected city.	5	High	ARAVINDAN S
Sprint-3	User Input	USN-7	As a user, I should give the theoretical power and wind speed to predict the energy output.	5	High	ARAVIND NAGARAJAN R
Sprint-4	Energy Output	USN-8	As a user, I can view the predicted energy output of wind Turbines.	5	High	ALDRIN JEFFERSON R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	User details	USN-9	As an admin, I should store the details of the user.	6	Medium	BALAJI S
Sprint-2	Data Pre-Processing	USN-10	As an admin, I should clean and pre-process data using pandas.	5	High	ARAVINDAN S
Sprint-2		USN-11	As an admin, I should train and test the dataset using sklearn.	5	High	ARAVIND NAGARAJAN R
Sprint-3	Model Building	USN-12	As an admin, I should predict the accuracy of data using supervised machine learning.	12	High	ALDRIN JEFFERSON R
Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-4	API	USN-13	As an admin, I should connect the presentation tier, logic tier, and data tier using python flask.	10	High	ALDRIN JEFFERSON R
Sprint-4	Notification	USN-14	As an admin, I should send the prediction chart via mail	5	Medium	ARAVIND NAGARAJAN R

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	17	8 Days	22 Oct 2022	29 Oct 2022		
Sprint-2	20	4 Days	31 Oct 2022	03 Nov 2022		
Sprint-3	23	5 Days	04 Nov 2022	08 Nov 2022		
Sprint-4	20	4 Days	09 Nov 2022	12 Nov 2022		

Velocity:

Average velocity of sprint-1: AV = 17/8 = 2.125

Average velocity of sprint-2: AV = 15/4 = 5

Average velocity of sprint-3: AV = 18/5 = 4.6

Average velocity of sprint-4: AV = 20/4 = 5