

## 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	Arjun V
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	Veda Mouli
Sprint-1		USN-3	As a user, I can register for the application through Phone number	2	Low	Harish B
Sprint-1		USN-4	As a user, I can register for the application through Gmail	3	Medium	Arunagirinathan D

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-1	Login(User)	USN-5	As a user, I can log into the application by entering email & password.	5	High	Arjun V
Sprint-2	Dashboard	USN-6	Once I have logged in, I can see my dashboard.	6	Medium	Arunagirinathan D
Sprint-2	Web access	USN-7	As a customer I can access the website to predict the turbine power.	7	High	Veda Mouli
Sprint-2	Prediction	USN=8	As a customer when I enter the weather details the website should predict the approximate turbine power.	7	High	Veda Mouli
Sprint-3	Analysis	USN-9	As a customer, I wish to store my predictions and make analysis.	10	Medium	Harish B
Sprint-3	Security	USN-10	As a customer I expect my data to be secured.	10	Medium	Arjun V

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	Harish 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	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)

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

**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.



