Project Planning Phase

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

Date	16 November 2022
Team ID	PNT2022TMID20703
Project Name	Predicting the energy output of wind farm 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	I can sign up for the application as a user by providing my email address, a password, and a password confirmation.	5	High	Tarun H Shasti Alagan R Akash R Monish Kumar S.S
Sprint-1		USN-2	When I register for the application as a user, I will get a confirmation email.	5	High	Tarun H Shasti Alagan R Akash R Monish Kumar S.S Tarun H
Sprint-1		USN-3	After creating their account, the user should confirm the email.	2	Low	Tarun H Shasti Alagan R Akash R Monish Kumar S.S Tarun H
Sprint-1		USN-4	As a user, I can register for the application through Gmail	3	Medium	Tarun H Shasti Alagan R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Akash R Monish Kumar S.S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Tarun H Shasti Alagan R Akash R Monish Kumar S.S Tarun H
Sprint-2	Dashboard	USN-6	Once I have logged in, I can see my dashboard.	6	Medium	Tarun H Shasti Alagan R Akash R Monish Kumar S.S Tarun H
Sprint-2	Web access	USN-7	As a customer I can access the website to predict the turbine power	7	High	Tarun H Shasti Alagan R Akash R Monish Kumar S.S Tarun H
Sprint-2	Prediction	USN=8	As a customer when I enter the weather details, the website should predict the approximate turbine power	7	High	Tarun H Shasti Alagan R Akash R Monish Kumar S.S Tarun H
Sprint-3		USN-9	Customer can also provide the latitude and longitude of any location, and our web app will predict the wind power based on the wind speed and wind direction of the location given.	10	Medium	Tarun H Shasti Alagan R Akash R Monish Kumar S.S Tarun H
Sprint-3	Forecasting	USN-10	Customer can enter latitude and longitude of any location, our website will forecast wind	5	Medium	Tarun H Shasti Alagan R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			speed , wind direction and wind power for next 6 days.			Akash R Monish Kumar S.S
Sprint-3	Plotting	USN-11	Website provides various charts to make the customer understand the speed, direction and power visually.	3	Low	Tarun H Shasti Alagan R Akash R Monish Kumar S.S
Sprint-3	Security	USN-12	As a customer I expect my data to be secured	2	Low	Tarun H Shasti Alagan R Akash R Monish Kumar S.S
Sprint-4	Database Access	USN-13	As an Administrator, I should maintain the website. And update the website regularly.	20	High	Tarun H Shasti Alagan R Akash R Monish Kumar S.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	22 Oct 2022	27 Oct 2022		
Sprint-2	20	6 Days	29 Oct 2022	03 Nov 2022		

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-3	20	6 Days	04 Nov 2022	09 Nov 2022		
Sprint-4	20	6 Days	11 Nov 2022	16 Nov 2022		

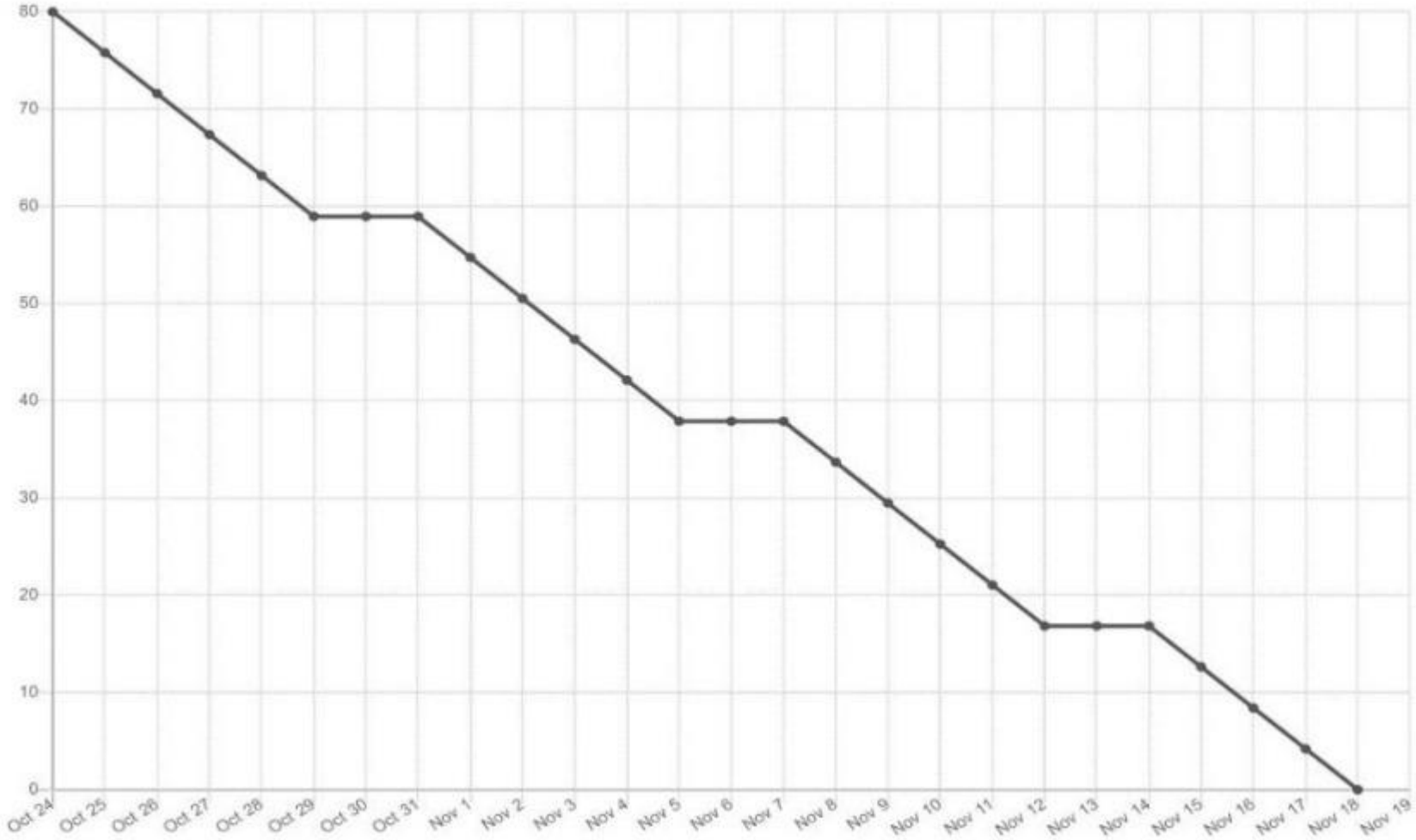
Velocity:

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:

Burndown Chart



A burn down chart plots the amount of work remaining to perform against the amount of time. In agile software development approaches like Scrum, it is frequently employed. Burn down charts, however, can be used for any project that makes observable 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

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts