Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID52641
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	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-1		USN-3	User should verify the email once they have created their account.	2	Low	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-1		USN-4	As a user, I can register for the application through Gmail	3	Medium	Loganathan D Sethubharathi B Sabana Yashmin K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Prithika M Mohanapriya D
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-2	Dashboard	USN-6	Once I have logged in, I can see my dashboard.	6	Medium	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-2	Web access	USN-7	As a customer I can access the website to predict the turbine power	7	High	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya 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	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
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	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-3	Forecasting	USN-10	Customer can enter latitude and longitude of any location, our website will forecast wind	5	Medium	Loganathan D Sethubharathi B Sabana Yashmin K

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.			Prithika M Mohanapriya D
Sprint-3	Plotting	USN-11	Website provides various charts to make the customer understand the speed, direction and power visually.	3	Low	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-3	Security	USN-12	As a customer I expect my data to be secured	2	Low	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya D
Sprint-4	Database Access	USN-13	As an Administrator, I should maintain the website. And update the website regularly.	20	High	Loganathan D Sethubharathi B Sabana Yashmin K Prithika M Mohanapriya 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	24 Oct 2022	29 Oct 2022		
Sprint-2	20	6 Days	31 Oct 2022	05 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	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 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.

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