Project Planning Phase

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

Date	14 November 2022
Team ID	PNT2022TMID51231
Project Name	Predicting the energy output of wind farmbased 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	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-1		USN-3	User should verify the email once they have created their account.	2	Low	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha

Sprint-1		USN-4	As a user, I can register for the application through Gmail	3	Medium	M.Subha
						E.Anusuya P.Durgadevi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						M.Manjuladevi B.Swetha
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-2	Dashboard	USN-6	Once I have logged in, I can see my dashboard.	6	Medium	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-2	Web access	USN-7	As a customer I can access the website to predict the turbine power	7	High	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-2	Prediction	USN=8	As a customer when I enter the weather details, the website should predict the approximate turbine power	7	High	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-3		USN-9	Customer can also provide the latitude and longitude of any location, and our web app will	10	Medium	M.Subha E.Anusuya

			predict the wind power based on the wind speed and wind direction of the location given.			P.Durgadevi M.Manjuladevi B.Swetha
Sprint-3	Forecasting	USN-10	Customer can enter latitude and longitude ofany location, our website will forecast wind	5	Medium	M.Subha
						E.Anusuya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			speed , wind direction and wind power for next6 days.			B.Swetha M.Manjula devi
Sprint-3	Plotting	USN-11	Website provides various charts to make the customer understand the speed, direction and power visually.	3	Low	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-3	Security	USN-12	As a customer I expect my data to be secured	2	Low	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha
Sprint-4	Database Access	USN-13	As an Administrator, I should maintain the website. And update the website regularly.	20	High	M.Subha E.Anusuya P.Durgadevi M.Manjuladevi B.Swetha

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	14 Nov2022	20 Nov 2022		
Sprint-2	20	6 Days	21 Nov2022	27 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	20 Nov 2022	27 Nov 2022		
Sprint-4	20	6 Days	27 Nov 2022	30 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 suchas 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