Project Planning Phase

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

Date	14 November 2022
Team ID	PNT2022TMID09623
Project Name	Fertilizer Recommendation System for Plant Disease Prediction
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 by entering my email, password, and confirming my password.	8	High	Ilakkiya K, Madhunisha K, Mirunalini S S, Mirdhula K, Jayashree K
Sprint-1	Pre-processing	USN-2	The data collected is modified to enhance the performance and it is uploaded in the database or IBM cloud.	5	Medium	Ilakkiya K, Madhunisha K, Mirunalini S S, Mirdhula K, Jayashree K
Sprint-2	Analyze	USN-3	The uploaded data are analyzed and it is used to make predictions.	8	Medium	Ilakkiya K, Madhunisha K, Mirunalini S S, Mirdhula K, Jayashree K
Sprint-3	Dashboard	USN-4	The results of previous predictions can be found in the dashboard. I can also view other user details and upload or update images and other details here.	8	Medium	Ilakkiya K, Madhunisha K, Mirunalini S S, Mirdhula K, Jayashree K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Visualization	USN-5	I can visualize the list of diseases available and their suitable fertilizer.	5	High	Ilakkiya K, Madhunisha K, Mirunalini S S, Mirdhula K, Jayashree K
Sprint-4	Prediction	USN-6	To prevent the plants from getting infected, we can predict the disease and analyze the list for suitable fertilizer.	5	High	Ilakkiya K, Madhunisha K, Mirunalini S S, Mirdhula K, Jayashree K

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	13	6 Days	24 Oct 2022	29 Oct 2022	13	30 Oct 2022
Sprint-2	8	6 Days	31 Oct 2022	05 Nov 2022	8	6 Nov 2022
Sprint-3	8	6 Days	07 Nov 2022	12 Nov 2022	8	13 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	In progress	20 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)

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