Project Planning Phase

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

Date	19 November 2022
Team ID	PNT2022TMID21246
Project Name	Smart Farmer – IOT based smart farming Application
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
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
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High
Sprint-1		USN-3	As a user, I can register for the application through Gmail	5	Medium
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	5	High
Sprint-2	Dashboard	USN-5	As a user, I can see the status of the temperature in the dashboard .	10	High
Sprint-2	Dashboard User Interface	USN - 11	Administrator designing the user interface	10	Medium
Sprint-3		USN-6	As a user I can see the status of the water level in the irrigation system .	10	High
Sprint-3		USN-7	As a user, I can log out my account in settings.	10	Medium
Sprint-4		USN-8	As a user, I can see my daily updates in account settings.	10	Medium

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-4	Mobile application / web application	USN-9	Solve issues brought up by client	5	Medium
Sprint-4		USN-10	Roll out updates and bug fixes	5	High

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	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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.