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

Date	20 October 2022
Team ID	PNT2022TMID12810
Project Name	SmartFarmer – IoT Enabled 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	Team Members
Sprint-1	Hardware circuit implementation – End devices	USN-1	Hardware sensors integration with microcontroller along with WiFi connectivity	50	High	Tharun G, Tamilselvan S, Sneha S.
Sprint-2	Software development – End devices	USN-2	Programming using NodeRED and IBM Watson IoT Platform.	50	High	Tharun G, Saanjhree, Sneha S.
Sprint-3	App development using MIT	USN-3	User friendly mobile application development using MIT App Inventor	50	High	Tharun G, Tamilselvan S, Saanjhree.
Sprint-4	Website UI	USN-4	Alternate way of using website for user interaction.	50	Medium	Tharun G, Tamilselvan S, Sneha 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	50	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	50	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	50	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	50	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:
Imagine we have a 6-day sprint duration, and the velocity of the team is 50 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{50}{6} = 8.33$$