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

Date	21 October 2022
Team ID	PNT2022TMID52019
Project Name	Smart Farmer-IOT Enabled 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	Team Members
Sprint-1	Registration (Farmer Mobile User)	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Naveen.K (Team leader)
Sprint-1	Login	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Jennethwyn.E.M (Team Member 1)
Sprint-2	User Interface	USN-3	As a user, I can register for the application through Facebook	2	Low	Yogeswar.K (Team Member 2)
Sprint-1	Data Visualization	USN-4	As a user, I can register for the application through Gmail	2	Medium	Siva Priya.M (Team Member 3)
Sprint-3	Registration (Farmer -Web User)	USN - 1	As a user, I can log into the application by entering email and password	3	High	Naveen.K (Team Leader)
Sprint - 2	Login	USN - 2	As a registered user, I need to easily login log into my	3	High	Jennethwyn.E.M (Team Member 1)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			registered account via the web page in minimum time			
Sprint - 4	Web UI	USN - 3	As a user, I need to have a friendly user interface to easily view and access the resources	3	Medium	Yogeswar.K (Team Member 2)
Sprint - 1	Registration (Chemical Manufacturer - Web user)	USN - 1	As a new user, I want to first register using my organization email and create a password for the account.	2	High	Siva Priya.M (Team Member 3)
Sprint - 4	Login	USN - 2	As a registered user, I need to easily log in using the registered account via the web page.	3	High	Naveen.K (Team Leader)
Sprint - 3	Web UI	USN - 3	As a user, I need to have a user friendly interface to easily view and access the resources.	3	Medium	Jennethwyn.E.M (Team Member 1)
Sprint - 1	Registration (Chemical Manufacturer - Mobile User)	USN - 1	As a user, I want to first register using my email and create a password for the account.	1	High	Yogeswar. K (Team Member 2)
Sprint - 1	Login	USN - 2	As a registered user, I need to easily log in to the application.	2	Low	Siva Priya.M (Team Member 3)

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	12	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	6	6 Days	31 Oct 2022	05 Nov 2022	20	30 OCT 2022
Sprint-3	6	6 Days	07 Nov 2022	12 Nov 2022	20	6 NOV 2022
Sprint-4	6	6 Days	14 Nov 2022	19 Nov 2022	20	7 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)

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

AV for sprint 1= Sprint Duration/Velocity=12/6=2
AV for sprint 2= Sprint Duration/Velocity=6/6=1
AV for Sprint 3=Sprint Duration/Velocity=6/6=1
AV for Sprint 4=Sprint Duration/Velocity=6/6=1

Burndown Chart: