IOT - Enabled Smart Farming Application

Project Planning Phase

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

Date	18 October 2022
Team ID	**PNT2022TMID11484**
Project Name	SmartFarmer
Maximum Marks	8 Marks

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

product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Login	USN-1	As a Administrator, I need to give user idand passcode so that user can have access.	10	low	Bala,hari
Sprint-1	Dashboard	USN-2	As a developer, I need to provide option for viewing farm security detail, farmyard 3600 degree view, graphical representation of farm details, weather condition , light, humidity, temperature, soil moisture, and timing, control for rover so that farmers can look after their yard.	10	medium	Bala,senthil
Sprint-2	app	USN-3	As a developer, I need to provide a mobile app, so that user can remotely oversee their farm land	20	high	Senthil,Hari, Dhilp,bala
Sprint-3	Simulation	USN-4	As a developer, I need to simulate and connect the sensors, so the input is provided to the app.	20	medium	Bala,hari
Sprint-4	Database	USN-5	As a developer, I need to develop a back end connectivity so that the app can retrieve data from database.	20	High	Dhilip,bala

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)

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