

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)

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	Login	USN-1	As Administrator, I need to give user id and passcode for farmers and provide	10	low	Bala,hari
Sprint-1	Dashboard	USN-2	farm security detail, see the farmyard in 360 degree, graphical rep of plants detail, cloud detail, irrigation amount and timing	10	medium	bala
Sprint-2	SENSORS	USN-3	soil corppx sensor, Ph sensor, DHT11 Sensor	20	high	senthil
Sprint-3	Cloud	USN-4	uploading soil moisture content, PH of soil, amount of water for irrigation. periodical the content will intimated and the graph was drawn for each plant	20	medium	Bala,hari
Sprint-4	rover	USN-5	Recharging Battery for full automation,camera for survilance and attaching sensor	20	High	Dhilp,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)

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