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

Date	22 October 2022
Team ID	PNT2022TMID17444
Project Name	IoT Based Smart Crop Protection System forAgriculture
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	Proper detection	USN-1	As a user, I want to detect the movement ofintruder in the field	5	High	Gokul vigneesh S
		USN-2	As a user, I want to know about the intruderhence the camera is activated	4	High	Gokul vigneesh S
		USN-3	As a user, I want to capture the pictures of theintruder	3	Medium	Gokul vigneesh S
Sprint-2	Buzzer	USN-4	As a user, I should ensure the crop protectionfrom birds using speaker	2	Medium	Ganesh kumar S
		USN-5	As a user, I should protect crop from intruderusing buzzer once the pictures are captured	4	High	Ganesh kumar S
Sprint-3	Mobile notification	USN-6	As a user, I will receive the pictures of theintruder through SMS	5	High	Madan Durkesh T
		USN-7	As a user, I can monitor the activity through thedata stored in the cloud	3	Medium	Madan Durkesh T

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Farmer	USN-8	As a user, I will receive the alert message forthe identification of intruder	5	High	Bathri Nath V
		USN-9	As a user, I can access the system from remote region through which I can switch off the buzzer when not needed	1	Low	Bathri Nath V
		USN-10	As a user, I can use the system at different region so that the animals won't get used to it	1	Low	Bathri Nath V
		USN-11	As a user, I should ensure the power efficiencyusing the solar power source	2	Medium	Bathri Nath V

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		
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

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

Projects / IoT Based Smart Crop Protection System for Agriculture

Roadmap

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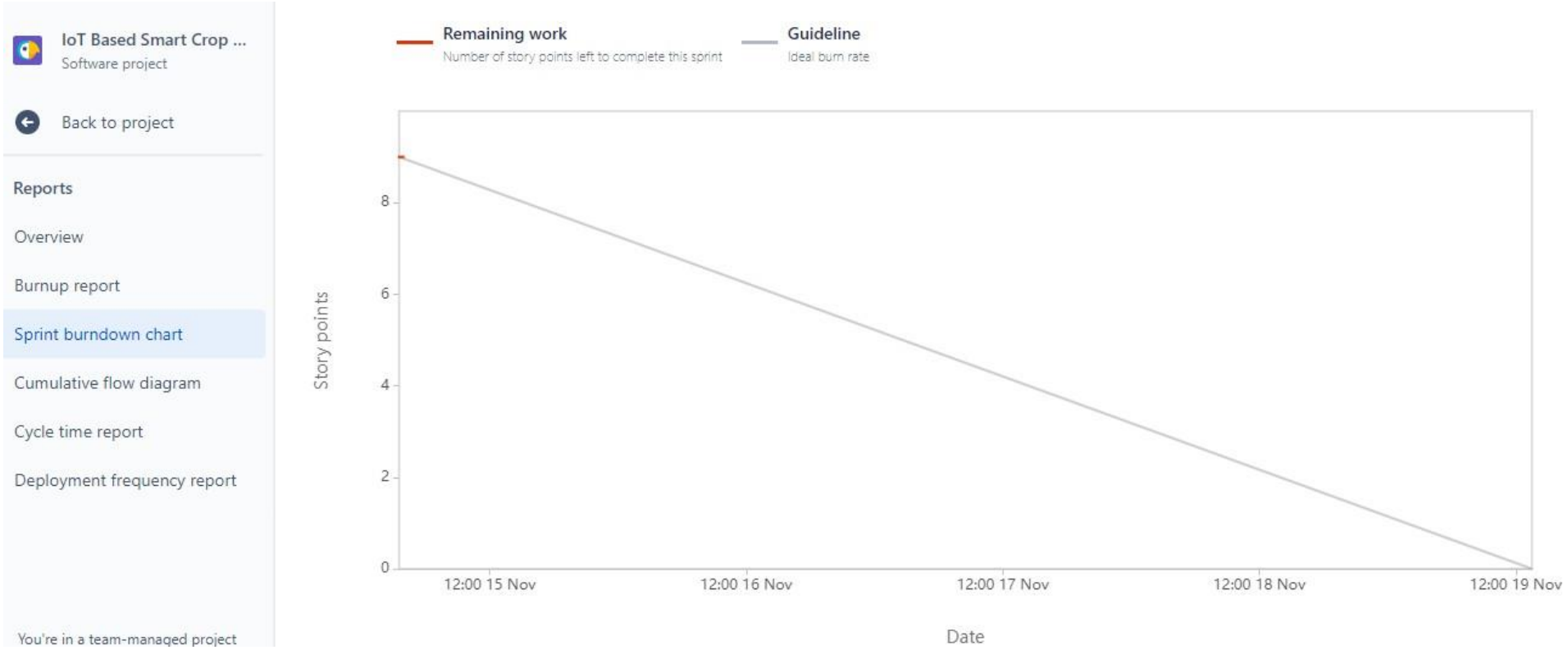
Status category


IoT Based Smart Crop ...
Software project
Back to project
Reports
Overview
Burnup report
Sprint burndown chart
Cumulative flow diagram
Cycle time report
Deployment frequency report
You're in a team-managed project
Remaining work
Number of story points left to complete this sprint
Guideline
Ideal burn rate
Story points
8
6
4
2
0
12:00 15 Nov
12:00 16 Nov
12:00 17 Nov
12:00 18 Nov
12:00 19 Nov
Date