

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

Date	22 October 2022
Team ID	PNT2022TMID46939
Project Name	Smart Crop Protection System For Agriculture
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	Monitoring	USN-1	The IoT device will monitor the Crops in the Field.	20	High	Safreen Banu.Y Rabiya.L Suganya.M Priya Dharshini.D
Sprint 1	Surveying	USN-2	As a Farmer I can survey the Crops level in the Field.	20	Low	Safreen Banu.Y Rabiya.L Suganya.M Priya Dharshini.D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Mapping	USN-3	As an admin, I can map the fields and providing data to farmers.	20	High	Safreen Banu.Y Rabiya.L Suganya.M Priya Dharshini.D
Sprint-3	Alert	USN-4	As a Co-Admin, I can send alert message to the Farmer.	20	High	Safreen Banu.Y Rabiya.L Suganya.M Priya Dharshini.D
Sprint-4	Location View	USN-5	As a Farmer, I will follow the route to the Crops in the field which can avoid animal intrusion.	20	Medium	Safreen Banu.Y Rabiya.L Suganya.M Priya Dharshini.D

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	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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)

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

Burndown Chart:

