Project Planning Phase

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

Date	3 NOV 2022
Team ID	PNT2022TMID11461
Project Name	IOT Based 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 member
Sprint 1	Regsitration	USN-1	How user interacts with application	2	High	1
Sprint 1	login	USN-2	As a user, I can log into the application by entering mail and password	2	Medium	
Sprint 2	soil sensors	USN-3	To detect a soil moisture	1	Medium	1
Sprint 3	monitoring	USN-4	Develop a python script to detect a temperature, humidity etc	1	Medium	1
Sprint 4	PIR sensors	USN-5	To detect a animal in that agriculture		High	1

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	10	9 days	9 NOV 2022	18 NOV 2022	**10**	18 NOV 2022
Sprint-2	10	8 days	10 NOV 2022	18 NOV 2022		
Sprint-3	10	7 days	11 NOV 2022	18 NOV 2022		
Sprint-4	10	7 days	11 NOV 2022	18 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)

$$AV = \text{Sprint duration/velocity}$$
$$= 20/10 = 2$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.