Project Planning Phase

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

Date	9 November 2022
Team ID	PNT2022TMID05038
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	PRANAV NIVAS K RAJADURAI M
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	PRANAV NIVAS K RAJADURAI M PRAVEEN KUMAR M
Sprint-2	Hardware Development phase - 1	USN-3	Monitoring and displaying humidity and temperature.	2	Low	RAJADURAI M KRISHNAPANDI M G
Sprint-2	Hardware Development phase - 2	USN-4	Connecting the device online(Configuring wifi automatically through a web portal)	2	High	RAJADURAI M KRISHNAPANDI M G PRAVEEN KUMAR M
Sprint-3	Hardware Development phase - 3	USN-5	Uploading data to the cloud.	1	High	PRANAV NIVAS K RAJADURAI M KRISHNAPANDI M G
Sprint-4	Hardware Development phase - 4	USN-6	Establishing relay controls.	1	High	RAJADURAI M KRISHNAPANDI M G PRAVEEN KUMAR M
Sprint-4	Mobile Application	USN-7	Deployment of application	2	High	RAJADURAI M KRISHNAPANDI M G

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	01 Nov 2022	07 Nov 2022		12 Nov 2022
Sprint-2	20	2 Days	08 Nov 2022	10 Nov 2022		13 Nov 2022
Sprint-3	20	5 Days	11 Nov 2022	16 Nov 2022		16 Nov 2022
Sprint-4	20	2 Days	17 Nov 2022	19 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)

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

Burndown Chart:

A burndown 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.