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

Date	16 October 2022
Team ID	PNT2022TMID42568
Project Name	Smart Farmer – 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	Simulation Creation	USN-1	Connect sensors, Arduino and esp8266	4	High	Bharathi, Bharath Narayanan, Kavi Priya, Keerthana
Sprint-1	Software	USN-2	IBM Watson IoT platform, Workflows for IoT scenarios using Node-red	3	High	Bharathi, Bharath Narayanan, Kavi Priya, Keerthana
Sprint-2	Software and Hardware	USN-3	To develop a mobile application using MIT	5	Medium	Bharathi, Bharath Narayanan, Kavi Priya, Keerthana
Sprint-2	Software	USN-4	Application development for project	4	High	Bharathi, Bharath Narayanan, Kavi Priya, Keerthana
Sprint-3	Software	USN-6	Connecting application with Node-Red and further application development	3	High	Bharath Narayanan, Kavi Priya, Keerthana
Sprint-4	Testing	USN-7	Testing developed application and working model of hardware	3	High	Bharath Narayanan, Kavi Priya, Keerthana

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	7	6 Days	24 Oct 2022	29 Oct 2022		30 Oct 2022
Sprint-2	8	6 Days	31 Oct 2022	05 Nov 2022		08 Nov 2022
Sprint-3	2	6 Days	07 Nov 2022	12 Nov 2022		14 Nov 2022
Sprint-4	3	6 Days	14 Nov 2022	19 Nov 2022		18-19 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)

Total Sprint Points = 21

Total Sprint = 7

Average Velocity = 21/7 = 3

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.