Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	22 October 2022
Team ID	PNT2022TMID22476
Project Name	Project – Smart Farmer – IOT Enabled Smart Farming
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks) :

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	2	High	Sabariya Gayathri
Sprint-1	Software	USN-2	Develop an application with MIT App inventor (Login page with firebase)	2	High	Priyadharshini Ponsheeba
Sprint-2	Software and Hardware	USN-3	Connect the hardware with IBM Cloud and API Integration	2	Medium	Gayathri Sabariya Ponsheeba
Sprint-2	Software	USN-4	Application development for project	2	High	Priyadharshini Sabariya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Software	USN-5	Establishing Node-Red connection	2	Medium	Ponsheeba Gayathri
Sprint-3	Software	USN-6	Connecting application with Node-Red	2	High	Priyadharshini Ponsheeba
Sprint-4	Testing	USN-7	Testing developed application and working model of hardware	2	High	Sabariya Gayathri

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	18	6 Days	24 Oct 2022	29 Oct 2022	18	29 Oct 2022
Sprint-2	18	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	18	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	18	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

We have a 6-day sprint duration, and the velocity of the team is 18 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

Average Velocity = Sprint duration / Velocity
= 18/6
= 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.