

## **Project Planning Phase**

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

Date	22 October 2022
Team ID	PNT2022TMID22052
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

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-1	Registration	USN-1	Creating of Login page in application	4	Highest	Vhoom Prakash
Sprint-1	Registration	USN-2	Developing logic for sign in and sign up and Database Integration	5	Highest	Prem Kumar
Sprint-1	Registration	USN-3	Testing the created sign in and sign up page in our app and Database Integration	3	High	Spencer
Sprint-1	Login	USN-4	User can login into application by entering email and password	3	Medium	Sooria
Sprint-2	IoT Device Setup	USN-5	Least Device and Better Output	2	Highest	Vhoom Prakash
Sprint-2	Dashboard	USN-6	Graphical / Pictorial Representation for app and web ui	3	Low	Spencer
Sprint-2	IoT Device Setup	USN-7	Low cost setup	2	Highest	Sooria
Sprint-2	Dashboard	USN-8	Single widget Representation	5	Medium	Prem Kumar
Sprint-2	Dashboard	USN-9	Organised widget section	3	Highest	Sooria
Sprint-3	IoT Device Setup	USN-10	Multiple sensors in setup	2	Highest	Prem Kumar

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Sprint-3	User Problems	USN-11	Manual Guide creation for application	3	Medium	Sooria
Sprint-3	Query Clarification	USN-12	Solution to the queries	4	High	Vhoom Prakash
Sprint-3	User Problems	USN-13	Query form in the application	2	High	Prem Kumar
Sprint-3	Application	USN-14	Provide Commands through application	4	Highest	Spencer
Sprint-4	Particular Access	USN-15	Only authorised person access	4	High	Vhoom Prakash
S	User Problems	USN-16	Testing the application in multiple platform and ensure the working	3	High	Spencer
Sprint-4	Connection with IoT devices	USN-17	Testing the hardware setup and ensure the working	4	Medium	Sooria
Sprint-4	Application	USN-18	Agricultural Notes	4	Medium	Prem Kumar

## 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	15	5 Days	26 Oct 2022	30 Oct 2022		30 Oct 2022
Sprint-2	15	7 Days	31 Oct 2022	06 Nov 2022		07 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022		13 Nov 2022
Sprint-4	15	6 Days	13 Nov 2022	16 Nov 2022		17 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 Story

Points = 60Total

Sprint = 4

Average velocity =  $60/4 = 15$

### 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 suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

