

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

Date	22 October 2022
Team ID	PNT2022TMID28579
Project Name	SmartFarmer – IoT Enabled Smart Farming Application
Maximum Marks	8 Marks

Backlog

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VERSIONS

EPICS

Create epic

All issues

Registration

Login

Dashboard

IoT Device Setup

User Problems

Query Clarification

Particular Access

Connection with IoT Devices

Application

Issues without epics

▼

SFDP Sprint 1

4 issues

Add dates

SS

SM

S

S

Creation of Login page in Application

Registration

SM

SFDP-10

4

Developing Logic for Sign in and Sign Up and Database Integration

Registration

SS

SFDP-11

5

Testing the created sign in and sign up page in our app and ensure the working of the app

Registration

S

SFDP-12

3

User can log into application by entering the email and password

Login

S

SFDP-13

3

+ Create issue

4 issues

Estimate

15

▼

SFDP Sprint 2

5 issues

Add dates

SS

S

S

SM

Least Devices and Better Output

IoT Device Setup

SM

SFDP-18

2

Graphical / Pictorial Representantion for app and web ui

Dashboard

S

SFDP-15

3

Low cost setup

IoT Device Setup

S

SFDP-19

2

Single Widget Representation

Dashboard

SS

SFDP-16

5

Organised widget section

Dashboard

S

SFDP-14

3

+ Create issue

5 issues

Estimate

15

Start sprint

View linked pages



### 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	Sreedhar
Sprint-1	Registration	USN-2	Developing logic for sign in and sign up and Database Integration	5	Highest	Selvaraj
Sprint-1	Registration	USN-3	Testing the created sign in and sign up page in our app and Database Integration	3	High	Shanmugam
Sprint-1	Login	USN-4	User can login into application by entering email and password	3	Medium	Shreedharen
Sprint-2	IoT Device Setup	USN-5	Least Device and Better Output	2	Highest	Sreedhar
Sprint-2	Dashboard	USN-6	Graphical / Pictorial Representation for app and web ui	3	Low	Shanmugam
Sprint-2	IoT Device Setup	USN-7	Low cost setup	2	Highest	Shreedharen
Sprint-2	Dashboard	USN-8	Single widget Representation	5	Medium	Selvaraj
Sprint-2	Dashboard	USN-9	Organised widget section	3	Highest	Shreedharen
Sprint-3	IoT Device Setup	USN-10	Multiple sensors in setup	2	Highest	Selvaraj

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

## 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	18 Nov 2022		18 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)

Total Story Points = 60

Total 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 such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

