

## Project Planning Phase

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

Team ID	PNT2022TMID14662
Project Name	SmartFarmer – IoT Enabled Smart Farming Application
Maximum Marks	8 Marks

S ME GHANA	111619106081
MV JEEVANA	111619106052
MCHANDINI	111619106080
R JAYASREE	111619106108

Backlog

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Insights

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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

<div></div> Creation of Login page in Application	Registration	SM	SFDP-10		4
<div></div> Developing Logic for Sign in and Sign Up and Database Integration	Registration	SS	SFDP-11		5
<div></div> Testing the created sign in and sign up page in our app and ensure the working of the app	Registration	S	S <sub>FDP</sub> -12		3
<div></div> User can log into application by entering the email and password	Login	S	S <sub>FDP</sub> -13		3

+

Create issue

4 issues

Estimate

15

SFDP Sprint 2

5 issues

Add dates

SS

S

S

SM

<div></div> Least Devices and Better Output	IoT Device Setup	SM	SFDP-18		2
<div></div> Graphical / Pictorial Representation for app and web ui	Dashboard	S	SFDP-15		3
<div></div> Low cost setup	IoT Device Setup	S	S <sub>FDP</sub> -19		2
<div></div> Single Widget Representation	Dashboard	SS	S <sub>FDP</sub> -16		5
<div></div> Organised widget section	Dashboard	S	S <sub>FDP</sub> -14		3

+

Create issue

5 issues

Estimate

15

View linked pages

View linked pages



▼ SFDP Sprint 3 5 issues

Add dates

View linked pages

SS S SM S ...

<div></div> Multiple sensors in setup	IoT Device Setup	SS	SFDP-20	⬆	2
<div></div> Manual guide creation for application	User Problems	S	SFDP-21	=	3
<div></div> Solution to the Queries	Query Clarification	SM	S <sub>F</sub> DP-24	⬆	4
<div></div> Query form in the application	User Problems	SS	S <sub>F</sub> DP-23	⬆	2
<div></div> Provide commands through application	Application	S	S <sub>F</sub> DP-29	⬆	4

+ Create issue

5 issues Estimate 15

▼ SFDP Sprint 4 4 issues

Add dates

View linked pages

SS S SM S ...

<div></div> Only Authorised person access	Particular Access	SM	SFDP-27	⬆	4
<div></div> Testing the application in multiple android platform and ensures the working	User Problems	S	SFDP-22	⬆	3
<div></div> Testing the hardware setup and ensure the working	Connection with IoT De...	S	S <sub>F</sub> DP-28	=	4
<div></div> Agricultural Notes	Application	SS	S <sub>F</sub> DP-30	=	4

+ Create issue

4 issues Estimate 15

Backlog 0 issues

Create sprint

...

Your backlog is empty.

+ Create issue

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

<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	Ansiya Rose
Sprint-3	Query Clarification	USN-12	Solution to the queries	4	High	Betsy Lenora
Sprint-3	User Problems	USN-13	Query form in the application	2	High	Harini
Sprint-3	Application	USN-14	Provide Commands through application	4	Highest	Dhivya
Sprint-4	Particular Access	USN-15	Only authorised person access	4	High	Betsy Lenora
S	User Problems	USN-16	Testing the application in multiple platform and ensure the working	3	High	Dhivya
Sprint-4	Connection with IoT devices	USN-17	Testing the hardware setup and ensure the working	4	Medium	Ansiya Rose
Sprint-4	Application	USN-18	Agricultural Notes	4	Medium	Harini

### 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	11 Oct 2022	01 Nov 2022		30 Oct 2022
Sprint-2	15	8 Days	20 Oct 2022	08 Nov 2022		08 Nov 2022
Sprint-3	15	6 Days	27 Oct 2022	11 Nov 2022		09 Nov 2022
Sprint-4	15	6 Days	03 Nov 2022	17 Nov 2022		17 Nov 2022 – 18 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 = 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.

