

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

|               |   |
|---------------|---|
| Date          | 18-11-2022  |
| Team ID       | PNT2022TMID11788                                    |
| 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

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SFDP Sprint 2

5 issues

Add dates

SS

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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

4 issues

Estimate

15

View linked pages



▼ SFDP Sprint 3 5 issues



Add dates

[View linked pages](#)

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SM

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

+ Create issue

5 issues Estimate 15

▼ SFDP Sprint 4 4 issues



Add dates

[View linked pages](#)

- SS

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SM

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

