

## **Project Planning Phase**

### **Project Planning Template**

|                      |   |
|----------------------|---|
| <b>Date</b>          | <b>23 October 2022</b>  |
| <b>Team ID</b>       | <b>PNT2022TMID11064</b>                                       |
| <b>Project Name</b>  | <b>lot Based Smart Crop Protection System for Agriculture</b> |
| <b>Maximum Marks</b> | <b>8 Marks</b>  |

#### **Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

| <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      | User Registration                    | USN-1                    | As a user, I can register for the application by entering my email, password, and confirming my password.                  | 2                   | High            | NANDHINI N          |
| Sprint-1      | User Confirmation                    | USN-2                    | As a user, I will receive confirmation email once I have registered for the application                                    | 1                   | High            | NANDHINI N          |
| Sprint-1      | User Registration                    | USN-3                    | As a user, I can register for the application through Facebook   | 2                   | Low             | NANDHINI N          |
| Sprint-1      | User Registration                    | USN-4                    | As a user, I can register for the application through Gmail  | 2                   | Medium          | ROSHANA S           |
| Sprint-1      | Login                                | USN-5                    | As a user, I can log into the application by entering email & password   | 1                   | High            | ROSHANA S           |
| Sprint-1      | Dashboard                            | USN-6                    | As a user, I can log into the application by entering email & password and access all the resources and services available | 2                   | High            | ROSHANA S           |

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|---------------|--------------------------------------|--------------------------|--|---------------------|-----------------|---------------------|
| Sprint-2      | Login                                | USN-1                    | As a smart crop protection user, I log into my profile and start monitoring the crop status  | 3                   | High            | NANDHINI N          |
| Sprint-2      | Dashboard                            | USN-2                    | I receive all the information about crop, temperature and soil moisture  | 2                   | Medium          | PRIYANKA E          |
| Sprint-3      | Login                                | USN-1                    | As a data controller, I keep note of all the data received from various areas in the field and detect the problems in the crops.   | 3                   | High            | NEHA MOHANAN        |
| Sprint-3      | Dashboard                            | USN-2                    | With the help of sensor it allows farmers to monitor the crops and protect the crops from various factors such as animals birds and then it also notice the appearance of dangerous weeds, pests or diseases timely. | 2                   | Medium          | NEHA MOHANAN        |
| Sprint-4      | Login                                | USN-1                    | As a zonal officer, I ensure the fields periodically by checking the devices and sensors and limit the evolution of pesticides .   | 3                   | High            | PRIYANKA E          |
| Sprint-4      | Login                                | USN-1                    | As an administrator, I ensure that all departments work co-ordinated and ensure the accuracy and efficiency.   | 2                   | Medium          | ROSHANA S           |

## Project Tracker

| <b>Sprint</b> | <b>Total Story Points</b> | <b>Duration</b> | <b>Sprint Start Date</b> | <b>Sprint End Date (Planned)</b> | <b>Story Points Completed (as on Planned End Date)</b> | <b>Sprint Release Date (Actual)</b> |
|---------------|---------------------------|-----------------|--------------------------|----------------------------------|--|-------------------------------------|
| Sprint-1      | 20                        | 6 Days          | 24 Oct 2022              | 29 Oct 2022                      | 20   | 29 Oct 2022                         |
| Sprint-2      | 20                        | 6 Days          | 31 Oct 2022              | 05 Nov 2022                      | 20   | 5 Nov 2022                          |
| Sprint-3      | 20                        | 6 Days          | 07 Nov 2022              | 12 Nov 2022                      | 20   | 12 Nov 2022                         |
| Sprint-4      | 20                        | 6 Days          | 14 Nov 2022              | 19 Nov 2022                      | 20   | 19 Nov 2022                         |

**Velocity:**

$$AV = \frac{\text{Sprint duration}}{\text{Velocity}}$$

$$= \frac{26}{20}$$
$$= 1.3$$

**BURNDOWN CHART:**

