

## PROJECT PLANNING PHASE

|               |  |
|---------------|--|
| Date          | 14 November 2022                                       |
| Team ID       | PNT2022TMID29726                                       |
| Project Name  | IoT based Smart crop Protection System for agriculture |
| Maximum Marks | 8 Marks  |

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

| Sprint   | Functional Requirement (Epic) | User Story Number | User Story / Task   | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|---|--------------|----------|--------------|
| Sprint-1 | Simulation                    | US-1              | As a user I can first simulate the hardware using some software with python code                          | 6            | High     | Vasanth      |
| Sprint-1 | Software                      | US-2              | To make use of the hardware through cloud I have to create software                                       | 4            | Medium   | Vigneshwaran |
| Sprint-2 | Registration                  | US-3              | As a user, I can register for the application by entering my email, password, and confirming my password. | 5            | Medium   | Vinoth       |
| Sprint-2 |                               | US-4              | As a user, I will receive confirmation email once I have registered for the application                   | 5            | High     | Mohan Babu   |

| <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      |                                      | US-1                     | As a user, I can register for the application through Facebook  | 10                  | High            | Mohan Raj           |
| Sprint-3      |                                      | US-2                     | As a user, I can register for the application through Gmail   | 10                  | High            | Vigneshwaran        |
| Sprint-3      | Login                                | US-1                     | As a user, I can log into the application by entering email & password  | 7                   | High            | Vinoth              |
| Sprint-3      | Dashboard                            | US-2                     | As a user I can directing to the dashboard where I can upload info about crops                                  | 5                   | Medium          | Vasanth             |
| Sprint-4      | Registration                         | US-3                     | As a user I can easily get information about the damages caused, actions taken, recommendations for improvement | 8                   | High            | Vigneshwaran        |
| Sprint-4      | Dashboard                            | US-1                     | As a user I can get a customer toll freenumber in dashboard for my issues                                       | 10                  | High            | Sathish Kumar       |
| Sprint-4      | Dashboard                            | US-2                     | As a user I can able to contact administrators through feedback options   | 10                  | High            | Mohan Babu          |

## 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 | 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  | 05 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:**

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

## Burndown Chart:

