**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID32605 |
| Project Name | 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 | Registration and setup | Farmer | As a user-farmer , I can register for the system by setting up the sensors. | 20 | High | Ahmed Yahya.A, Dheeraj Prakash.S, Mukesh Manikandan.M, Nagaraj.R |
| Sprint-2 | Get notify | Farmer | When an animal is detected I need to receive notification with Image captured. | 10 | High | Ahmed Yahya.A, Dheeraj Prakash.S, Mukesh Manikandan.M, Nagaraj.R |
| Sprint-3 | On/off Motor | Farmer | I can remotely turn on and off the water motor. | 5 | Medium | Ahmed Yahya.A, Dheeraj Prakash.S, Mukesh Manikandan.M, Nagaraj.R |
| Sprint-3 | On/off Light | Farmer | I can remotely turn on and off the lights. | 5 | Medium | Ahmed Yahya.A, Dheeraj Prakash.S, Mukesh Manikandan.M, Nagaraj.R |
| Sprint-4 | Temperature and Humidity | Farmer | I need to view the current temperature and the humidity of the agriculture land. | 5 | Low | Ahmed Yahya.A, Dheeraj Prakash.S, Mukesh Manikandan.M, Nagaraj.R |

**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 |  |  |
| Sprint-2 | 10 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  |  |
| Sprint-3 | 10 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 5 | 6 Days | 14 Nov 2022 | 19 Nov 2022 |  |  |