# IOT - Enabled Smart Farming Application

## Project Planning Phase

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

| Date | 18 October 2022 |
|---|---|
| Team ID | **PNT2022TMID11484** |
| Project Name | SmartFarmer |
| Maximum Marks | 8 Marks |

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

Use the below template to create product backlog and sprint schedule

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Login | USN-1 | As Administrator, I need to give user id and passcode for farmers and provide | 10 | low | Bala,hari |
| Sprint-1 | Dashboard | USN-2 | farm security detail, see the farmyard in 360 degree, graphical rep of plants detail, cloud detail, irrigation amount and timing,control for rover | 10 | medium | Bala,senthil |
| Sprint-2 | SENSORS and programming | USN-3 | soil corppx sensor, Ph sensor, DHT11 Sensor | 20 | high | Senthil,Hari, Dhilp,bala |
| Sprint-3 | Cloud | USN-4 | uploading soil moisture content, PH of soil, amount of water for irrigation. periodical the content will intimated and the graph was drawn for each plant | 20 | medium | Bala,hari |
| Sprint-4 | **rover** | USN-5 | Recharging Battery for full automation,camera for survilance and attaching sensor | 20 | High | Dhilip,bala |

**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:**

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)

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