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

| | |
|---|---|
| Date | 27 October 2022 |
| Team ID | PNT2022TMID30270 |
| Project Name | SmartFarmer - IoT Enabled Smart Farming Application |
| Maximum Marks | 8 Marks |

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

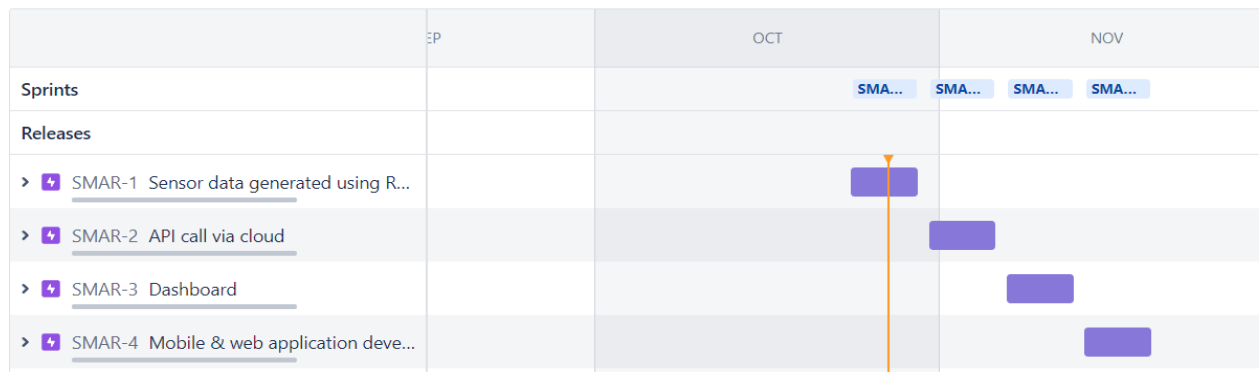| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Sensor data generated using Random in python | USN-4 | As a user, I will receive the detected data from the field in dashboard. The data is simulated using python random function. | 8 | Medium | Gobinath G |
| Sprint-2 | API call via cloud | USN-5 | As a user, I can give a permission for the activation of the automated irrigation system | 8 | High | Boobalan R |
| Sprint-3 | Registration | USN-1 | As a user, I can register for the application by entering my mobile number | 5 | High | Karthick raja S |
| | | USN-2 | As a user, I will receive confirmation using the one-time password | 3 | | |
| | Dashboard | USN-3 | As a user I can login into mobile/web application using mobile number and password | 5 | | |
| Sprint-4 | Mobile and web application development | USN-6 | As a user, I can monitor and control the field and irrigation system from remote location | 5 | High | Jayakumar M |

**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 | | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | 19 Nov 2022 |

**Sprint Velocity:**

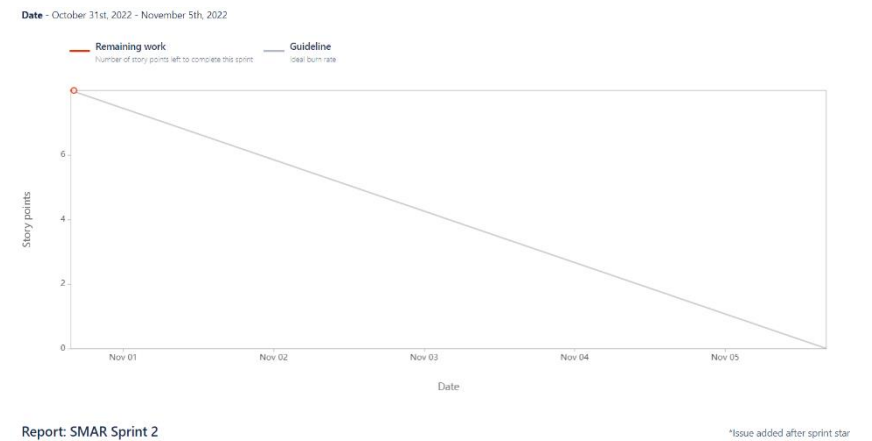$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$
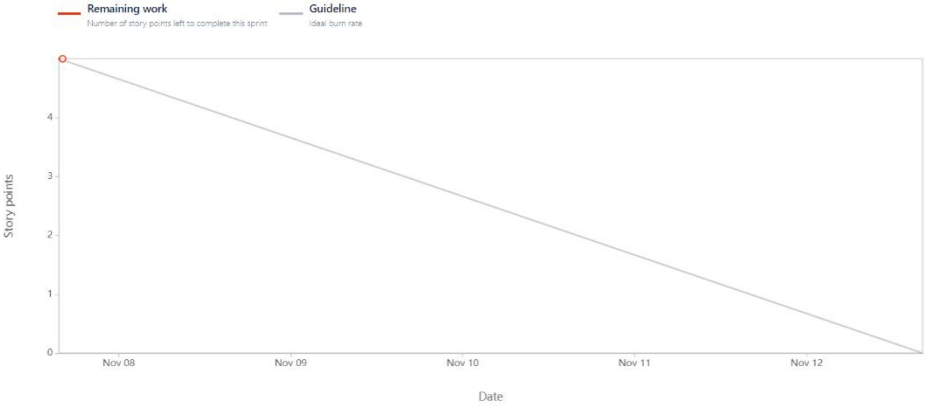
**Road map:**

# Burndown Chart:



**Date** - October 24th, 2022 - October 29th, 2022

**Remaining work**
Number of story points left to complete this sprint

**Guideline**
Ideal burn rate

Report: SMAR Sprint 1

*Issue added after sprint star

Sprint 1: Gobinath G



**Date** - October 31st, 2022 - November 5th, 2022

**Remaining work**
Number of story points left to complete this sprint

**Guideline**
Ideal burn rate

Report: SMAR Sprint 2

*Issue added after sprint star

Sprint 2:Boobalan R

**Remaining work**
Number of story points left to complete this sprint

**Guideline**
Ideal burn rate

Story points

Nov 08    Nov 09    Nov 10    Nov 11    Nov 12

Date

**Report: SMAR Sprint 3**

*Issue added after sprint start

Sprint 3: Karthick raja S

**Remaining work**
Number of story points left to complete this sprint

**Guideline**
Ideal burn rate

Story points

Nov 15    Nov 16    Nov 17    Nov 18    Nov 19

Date
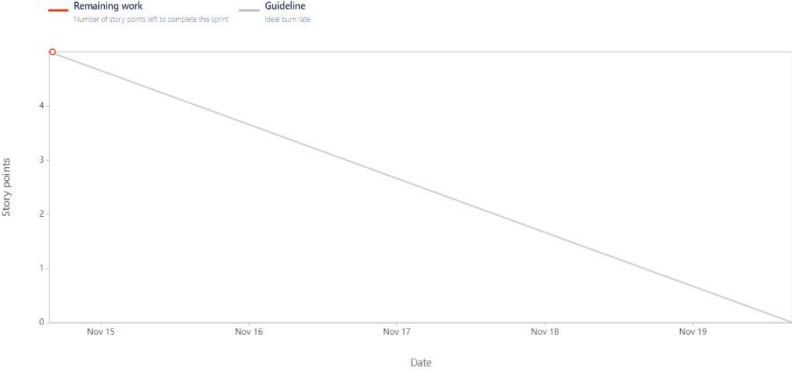
**Report: SMAR Sprint 4**

*Issue added after sprint start

Sprint 4: Jayakumar M