# Project Planning Phase

## Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

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|---|---|
| Date | 06 November 2022 |
| Team ID | PNT2022TMID22393 |
| Project Name | Smart Farmer -IOT Enabled Smart Farming Application |
| 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 | Simulation creation | USN-1 | Connect Sensors and Arduino with python code. | 2 | High | Abdul Kalam Azath, Vijith |
| Sprint-2 | Software | USN-2 | Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-Red | 2 | High | Vijay, Sahabdeen |
| Sprint-3 | MIT App Inventor | USN-3 | Develop an application for the Smart farmer project using MIT App Inventor | 2 | High | Sahadeen, Abdul Kalam Azath |
| Sprint-3 | Dashboard | USN-3 | Design the Modules and test the app | 2 | High | Vijay, Vijith |
| Sprint-4 | Web U | USN-4 | To make the user to interact with software. | 2 | High | Abdul Kalam Azath, Vijay |

## 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 | 4 Days | 07 Nov2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 3 Days | 11 Nov 2022 | 05 Nov 2022 | | 05 Oct 2022 |
| Sprint-3 | 20 | 3 Days | 14 Nov 2022 | 12 Nov 2022 | | 12 Oct 2022 |
| Sprint-4 | 20 | 3 Days | 17 Nov 2022 | 19 Nov 2022 | | 15 Oct 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)

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