# Project Planning Phase

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

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|---|---|
| Date | 19 October 2022 |
| Team ID | PNT2022TMID20449 |
| Project Name | Project -IoT Enabled Smart farming Applications |
| 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 creation | USN-1 | Connect sensors and arduino with python code | 2 | High | Karthika Kaviya Sathya hari kara sankar surya |
| Sprint 2 | Software | USN-2 | Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-Red | 2 | High | Karthika Kaviya Sathya hari kara sankar surya |
| Sprint 3 | MIT A pp inventor | USN-3 | Develop an application for the Smart farmers using MIT App inventor | 2 | High | Karthika Kaviya Sathya hari kara sankar surya |
| Sprint 3 | Dashboard | USN-3 | Design the module and test the app | 2 | High | Karthika Kaviya Sathya hari kara sankar surya |
| Sprint 4 | Web UI | USN-4 | To make the user interact with the software | 2 | High | Karthika Kaviya Sathya hari kara sankar surya |

**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 | 35 | 31 Oct 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 45 | 05 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 50 | 07 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)

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

**Burndown Chart:**