# Project Planning Phase

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

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|---|---|
| Date | 1 NOVEMBER 2022 |
| Team ID | PNT2022TMID25834 |
| Project Name | Project – 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 3 | High | KUPPASWAMY MEGHANA<br>HARITHA P |
| Sprint-1 | Software | USN-1 | Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-Red | 5 | Medium | KEERTHANA K P<br>VITHYASREE S |
| Sprint-2 | Simulation creation | USN-2 | Connecting Arduino python code in laptop with Arduino Breadboard. | 4 | High | KUPPASWAMY MEGHANA<br>KEERTHANA K P |
| Sprint-3 | Login | USN-3 | Then Connecting Hotspot in mobile phone through Blynk App. | 2 | Medium | VITHYASREE S<br>KUPPASWAMY MEGHANA |
| Sprint-4 | Dashboard | USN-4 | If the sensor is inserted inside ground surface then the output will viewed in Blynk app. | 4 | High | KEERTHANA K P<br>HARITHA P |

**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 | | 3 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | 8 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | 10 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:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**

**https://www.atlassian.com/agile/tutorials/burndown-charts**

**Reference:**

**https://www.atlassian.com/agile/project-management**

**https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software**

**https://www.atlassian.com/agile/tutorials/epics**

**https://www.atlassian.com/agile/tutorials/sprints**

**https://www.atlassian.com/agile/project-management/estimation**

**https://www.atlassian.com/agile/tutorials/burndown-charts**