# Project Planning Phase

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

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|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID15443 |
| Project Name | Project - 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 | Simulation | USN-1 | Create the Simulation by connecting the sensors by using the Arduino and connect with the code. | 2 | High | SOLLETI VENKATA VIGNA MOHITH<br>UPPALAMURTHY SHASHANK |
| Sprint-2 | Software | USN-2 | Create the device on IBM cloud platform and the node red platform to set the iot device workflow. | 2 | High | VELA GANESH<br>TALLURI VENKATA HANISH |
| Sprint-3 | Mobile App/Web Application | USN-3 | Develop the Application for Smartfarmer Iot enabled smart farming Application project using MIT App Inventor. | 2 | High | VELA GANESH<br>SOLLETI VENKATA VIGNA MOHITH |

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|---|---|---|---|---|---|---|
| Sprint-4 | Dashboard | USN-4 | Design all the modules and create all the features of the App and test the application. | 2 | High | UPPALAMURTHY SHASHANK<br><br>TALLURI VENKATA HANISH |
| Sprint-4 | Login/User Interface | USN-5 | Using the login make connections with the end users and make them interact with the software | 2 | High | UPPALAMURTHY SHASHANK<br><br>VELA GANESH |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

| **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
|---|---|---|---|---|---|
| 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | | 05 Nov 2022 |
| 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | 12 Nov 2022 |
| 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | 18 Nov 2022 |
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**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