Project Planning Phase

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

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| --- | --- |
| Date | 21 October 2022 |
| Team ID | PNT2022TMID41919 |
| Project Name | Smart Farmer- 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 creation | USN-1 | Connect Sensors and Arduino with python code | 2 | High | S.RAHUL  T.PRAKASH  P.ALFIN BELAN  S.DHANUSIGA |
| Sprint-2 | Software | USN-2 | Creating device in the IBM Watson IoT  platform, workflow for IoT scenarios using Node-Red | 2 | High | S.RAHUL  T.PRAKASH  P.ALFIN BELAN  S.DHANUSIGA |
| Sprint-3 | MIT App Inventor | USN-3 | Develop an application for the Smart farmer project using MIT App Inventor | 2 | High | S.RAHUL  T.PRAKASH  P.ALFIN BELAN  S.DHANUSIGA |
| Sprint-3 | Dashboard | USN-3 | Design the Modules and test the app | 2 | High | S.RAHUL  T.PRAKASH  P.ALFIN BELAN  S.DHANUSIGA |
| Sprint-4 | Web UI | USN-4 | To make the user to interact with software. | 2 | High | S.RAHUL  T.PRAKASH  P.ALFIN BELAN  S.DHANUSIGA |

Project Tracker, Velocity & Burn down Chart: (4 Marks)

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 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)



Burn down Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile [software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). 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>