**Project Planning Phase**

**Sprint delivery plan**

|  |  |
| --- | --- |
| Team ID | PNT2022TMID14849 |
| Project Name | Smart Farmer- IoT Enabled Smart Farming Application |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement** **(Epic)** | **User**  **Story**  **Number** | **User Story / Task** | **Story**  **Points** | **Priority** |
| Sprint-1 | Simulation creation | USN-1 | Connect Sensors and Arduino with python code | 2 | High |
| Sprint-2 | Software | USN-2 | Creating device in the IBM  Watson  IoT platform, workflow for IoT scenarios using  Node-Red | 2 | High |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | 7 Days | 30 Oct 2022 | 06 Nov 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 9 Days | 31 Oct 2022 | 09 Nov 2022 |  | 05 Oct 2022 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sprint-3 | MIT App  Inventor | USN-3 | Develop an application for the  Smart farmer project using MIT  App Inventor | 2 | High |
| Sprint-3 | Dashboard | USN-3 | Design the modules and test app | 2 | High |
| Sprint-4 | Web UI | USN-4 | To make the user to interact with the software | 2 | High |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-3 | 20 | 6 Days | 06 Nov 2022 | 13 Nov 2022 |  | 12 Oct 2022 |
| Sprint-4 | 20 | 6 Days | 11 Nov 2022 | 17 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)

