**Project Planning Phase**

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

|  |  |
| --- | --- |
| Team ID | PNT2022TMID24776 |
| Project Name | Project – Smart Farmer-IoT based 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 | Simulation creation | USN-1 | Connect the sensors Arduino with python  code | 2 | High | Hariharan S  Elumalai p  Babu E |
| Sprint-2 | Software | USN-2 | Creating device in the IBM Watson IoT  Platform ,workflow for IoT scenarios using  Node-Red. | 1 | High | Hariharan S  Elumalai p  Babu E |
| Sprint-3 | MIT App Invertor | USN-3 | Develop an application for the  Smart farmer project using MIT  App Inventor | 2 | Low | Hariharan S  Elumalai P,  Ajis geo R |
| Sprint-3 | Dashboard | USN-4 | Design the Modules and test the app | 2 | Medium | Hariharan S  Jackson Jecil K |
| Sprint-4 | Web UI | USN-5 | To make the user to interact with  software. | 1 | High | Hariharan S  Babu E  Ajis Geo R |

**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 | 2 | 6 Days | 24 Oct 2022 | 29 Nov 2022 | 2 | 06 Oct 2022 |
| Sprint-2 | 1 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 1 | 09 Nov2022 |
| Sprint-3 | 4 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 3 | 13 Nov 2022 |
| Sprint-4 | 1 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 1 | 17 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=sprint duration /total story points.

1. AV for sprint 1= 6/2=3
2. AV for sprint 2= 6/1=6
3. AV for sprint 3= 6/4=1.5
4. AV for sprint 4= 6/1=6