**SMART FARMER -IOT ENABLED SMART FARMING APPLICATION**

**Project Planning Phase**

**SPRINT DELIVERY PLAN**

|  |  |
| --- | --- |
| DOMAIN | Internet of Things |
| TEAM ID | PNT2022TMID22828 |
| PROJECT TITLE | Project – Smart Farmer - IOT enabled  Smart Farming Application |
| TEAM LEADER | KOWSALYA D |
| TEAM MEMBER | KAMALAKANNAN R  KARTHICK S  NITHEEN V P |
| 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 | Creating Hardware Simulation | USN - 1 | Connect Sensors and Wi - Fi modules by using Python code | 2 | High | Kowsalya D  Kamalakannan  Karthick S  Nitheen V P |
| Sprint - 2 | Using Software | USN - 2 | Creating device in the IBM Watson IOT platform, to making workflow of IOT scenarios using Node - RED service | 2 | High | Kowsalya D  Kamalakannan  Karthick S  Nitheen V P |
| Sprint - 3 | MIT App Inventor | USN - 3 | Develop a mobile application for the Smart Farmer project using MIT App Inventor | 2 | High | Kowsalya D  Kamalakannan  Karthick S  Nitheen V P |
| Sprint - 4 | Web UI | USN - 4 | To make the user to interact with software | 2 | High | Kowsalya D  Kamalakannan  Karthick S  Nitheen V 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 | 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).

Sprint Duration 20

AV = = = 2

# Velocity 10

**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.