Project Planning Phase

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

Date	02 November 2022
Team ID	PNT2022TMID26085
Project Name	Project – Smart farmer-IoT enabled smart farming application.
Maximum Marks	8 Marks

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

User Stories:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Simulation Software	USN-1	To connect the sensors and the devices with python code	2	High	Sathish S V, Surya T, Siva Srivardhan M, Tirumurugan R
Sprint-2	Software	USN-2	IBM IoT platform, Workflow for IoT using Node RED.	2	Medium	Sathish S V, Surya T, Siva Srivardhan M, Tirumurugan R
Sprint-2	Application Creation	USN-3	To create an application for the system using MIT App Inventor	3	High	Sathish S V, Surya T, Siva Srivardhan M, Tirumurugan R
Sprint-3	Dashboard	USN-4	Main Menu is valued and directs to the modules.	3	High	Sathish S V, Surya T, Siva Srivardhan M, Tirumurugan R
Sprint-3	Web UI	USN-5	To make easy to use of the software.	4	High	Sathish S V, Surya T, Siva Srivardhan M, Tirumurugan R
Sprint-4	Software	USN-6	Integrating the Applications with Node-RED	4	High	Sathish S V, Surya T, Siva Srivardhan M, Tirumurugan R
Sprint-4	Testing	USN-7	Testing the application and the working process of the hardware.	2	High	Sathish S V, Surya T, Siva Srivardhan M, Tirumurugan 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 Oct 2022		9-November-2022
Sprint-2	5	6 Days	31 Oct 2022	05 Nov 2022		13-November-2022
Sprint-3	7	6 Days	07 Nov 2022	12 Nov 2022		16-November-2022
Sprint-4	6	6 Days	14 Nov 2022	19 Nov 2022		19-November-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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

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.