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	simulation creation(connect sensor arduino with python code)	2	High	Kowsalya D Kamalakannan Karthick S

						Nitheen V P
Sprint - 2	Using Software	USN - 2	software (create device in the iot watson platform, workflow for iot scenarios using local node red)	2	High	Kowsalya D Kamalakannan Karthick S Nitheen V P
Sprint - 3	MIT App Inventor	USN - 3	Mit app inventor, dashboard (application for project using mit app, design the model and test the app)	2	High	Kowsalya D Kamalakannan Karthick S Nitheen V P
Sprint - 4	Web UI	USN - 4	web ui (to make the user interact with the 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).

$$AV = \frac{\text{Sprint Duration}}{\text{Velocity}} = \frac{20}{10} == 2$$

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.