Project Planning Phase

Date	12/11/2022
TeamID	PNT2022TMID07461
ProjectName	Smart Farmer-IoTEnabledSmart FarmingApplication
MaximumMarks	8 Marks

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

Sprint	Functional Requirement(Epic)	UserStory Number	UserStory/Task	Story Points	Priority	Team members
01Sprint-1	Simulation creation	USN-1	Connect Sensors and Arduino with pythoncode	2	High	Keerthana, Peravali Bala Venkat, Mohamed Arshath, Dharsini
Sprint-2	Software	USN-2	Creating device in the IBMWatson IoT platform,workflow for IoT scenario susing Node-Red	2	High	Keerthana, Peravali Bala Venkat, Mohamed Arshath, Dharsini
Sprint-3	MITAppInventor	USN-3	Develop an application for the Smart farmer project using MITApp Inventor	2	High	Keerthana, Peravali Bala Venkat, Mohamed Arshath, Dharsini
Sprint-3	Dashboard	USN-3	Design the Modules and test the app	2	High	Keerthana, Peravali Bala Venkat, Mohamed Arshath, Dharsini
Sprint-4	WebUI	USN-4	To make the user to interact with software.	2	High	Keerthana, Peravali Bala Venkat, Mohamed Arshath, Dharsini

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

Sprint	Total StoryPoints	Duration	SprintStartDate	SprintEndDate(Planned)	Story PointsCompleted(as on PlannedEndDate)	SprintReleaseDate(Actual)
Sprint-1	20	6Days	24Oct2022	29Oct2022	20	13Oct2022
Sprint-2	20	6Days	31Oct2022	05Nov2022	20	13Nov2022
Sprint-3	20	6Days	07Nov2022	12Nov2022	20	14Nov2022
Sprint-4	20	6Days	14Nov2022	19Nov2022	20	19Nov2022

Velocity:

Imaginewehavea10-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)

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

BurndownChart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies suchas Scrum.However,burn down chartscanbe appliedto anyprojectcontainingmeasurableprogressover time.

https://www.visual-paradigm.com/scrum/scrum-burndown-

chart/https://www.atlassian.com/agile/tutorials/burndown-charts