Project Planning Phase

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

Team ID	PNT2022TMID53765
Project Name	Project – Smart Farmer- IoT based Smart Farming Application
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	Simulation creation	USN-1	Connect Sensors and Arduino with python code	2	High	Sanjay.T Saran.A Saravanakumar.D Sivasudharsanam.k
Sprint-2	Software	USN-2	Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-Red	2	High	Sanjay.T Saran.A Saravanakumar.D Sivasudharsanam.k
Sprint-3	MIT App Inventor	USN-3	Develop an application for the Smart farmer project using MIT App Inventor	2	High	Sanjay.T Saran.A Saravanakumar.D Sivasudharsanam.k
Sprint-3	Dashboard	USN-3	Design the Modules and test the app	2	High	Sanjay.T Saran.A Saravanakumar.D Sivasudharsanam.k

Sprint-4	Web UI	USN-4	To make the user to interact with software.	2	High	Sanjay.T Saran.A Saravanakumar.D Sivasudharsanam.k

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	4 nov 2022	10 NOV 2022	20	10 Nov 2022
Sprint-2	20	6 Days	6 Oct 2022	12 Nov2022		12 Nov 2022
Sprint-3	20	6 Days	9 Nov 2022	15 Nov 2022		15 Nov 2022
Sprint-4	20	6 Days	12 Nov 2022	18 Nov 2022		18 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)

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

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.

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

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

Reference:

https://www.atlassian.com/agile/project-management https://www.atlassian.com/agile/tutorials/how-to-do-

scrum-with-jira-software https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints https://www.atlassian.com/agile/project-management/estimation

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