Project Planning Phase

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

Date	19 November 2022
Team ID	PNT2022TMID40916
Project Name	Project – Smart Farmer- IoT based Smart Farming Application
Maximum Marks	8 Marks

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

Sprint	Functional Requirements (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	Subhan Basha.Z
Sprint-2	Software	USN-2	Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-RED	2	High	Seetharaman.A
Sprint-3	MIT APP Inventor	USN-3	Develop and application for the Smart farmer project using MIT APP Inventor	2	High	Saravanan. M
Sprint-3	Dashboard	USN-3	Design the Modules and test the app	2	High	Saravanan. M
Sprint-4	Web UI	USN-4	To make the user to interact with software	2	High	Sunil.S

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 October 2022	29 October 2022	20	29 October 2022
Sprint-2	20	6 Days	31 October 2022	05 November 2022	20	05 November 2022
Sprint-3	20	6 Days	07 November 2022	12 November	20	12 November 2022
Sprint-4	20	6 Days	14 November 2022	19 November 2022	20	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)

$$AV = \text{Sprint duration/velocity} = 20/10 = \textbf{2}$$

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 a 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