Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID19113
Project Name	Project - SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	IoT devices	USN-1	Connectivity and functionality set up of Sensors and Wi-fi module	2	Medium	Team member-1 (Yugendran)
Sprint-2	Software	USN-2	Creating IBM Watson IoT platform, Workflow for IoT scenarios using Node-Red	1	High	Team member-2 (Viswesvaran)
Sprint-3	Registration and Login Dashboard	USN-3	To develop an application using MIT app interface As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Team lead (Varshni Soundarya)
Sprint-4	Web UI	USN-4	User interaction with the software	2	High	Team member-3 (Sakthi Sruthi)

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		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

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

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.