Project Planning Phase

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

Date	12 November 2022
Team ID	PNT2022TMID34110
Project Name	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	Login	USN-1	Develop an application with MIT app inventor (Login page)	8	High	Ashika.R
Sprint-1	Simulation	USN-2	Connect sensors and esp32	5	Medium	Abini Breen.E
Sprint-2	Software	USN-3	Develop a python script to publish random sensor data	3	Medium	Janisha.M
Sprint-2	Software	USN-4	Publish data to the IBM cloud	5	High	Arshitha.A
Sprint-2	Simulation	USN-5	Connect the circuit with the IBM Cloudant API integration	5	High	Ashika.R
Sprint-3	Simulation	USN-6	Establishing Node-RED connection	5	Medium	Janisha.M
Sprint-3	App development	USN-7	Application development using MIT app inventor	8	High	Ashika.R
Sprint-4	Simulation	USN-8	Connecting the developed application with Node-RED	3	High	Abini Breen.E
Sprint-4	App development	USN-9	Testing the developed application	5	High	Arshitha.A

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	13	6 Days	24 Oct 2022	29 Oct 2022		12 Nov 2022
Sprint-2	13	6 Days	31 Oct 2022	05 Nov 2022		13 Nov 2022
Sprint-3	13	6 Days	07 Nov 2022	12 Nov 2022		14 Nov 2022
Sprint-4	8	6 Days	14 Nov 2022	19 Nov 2022		14 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 = 13/6 = 2.16

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AV = 8/6 = 1.33

Burndown Chart:

A burndown 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.