Project Planning Phase

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

Date	01 November2022
Team ID	PNT2022TMID24104
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	Simulation Creation	USN-1	Connect sensors, Arduino and esp8266	2	High	M.Madhav Reddy (Leader)
Sprint-1	Software	USN-2	Develop an application with MIT App inventor (Login page with firebase)	2	High	Y.charan
Sprint-2	Software and Hardware	USN-3	Connect the hardware with IBM Cloud and API Integration	2	Medium	M.Madhav Reddy
Sprint-2	Software	USN-4	Application development for project	2	High	P.Sravanthi, P.Pavan Kalyan
Sprint-3	Software	USN-5	Establishing Node-Red connection	2	Medium	Y.charan , M.Madhav Reddy
Sprint-3	Software	USN-6	Connecting application with Node-Red and further application development	2	High	P.Sravanthi, P.Pavan Kalyan
Sprint-4	Testing	USN-7	Testing developed application and working model of hardware	2	High	M.Madhav Reddy

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

Story Points – 8 points

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	16	3 Days	25 Oct 2022	27 Oct 2022		27 Oct 2022
Sprint-2	16	4 Days	31 Oct 2022	03 Nov 2022		03 Nov 2022
Sprint-3	16	4 Days	09 Nov 2022	12 Nov 2022		11 Nov 2022
Sprint-4	8	5 Days	15 Nov 2022	19 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)

Total Sprint = 4

Total Sprint Points = 56

Average Velocity = 56/4 = 14

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.