

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18October 2022
Team ID	PNT2022TMID38652
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 andesp8266	10	High	Vishnu Prasath.S, Balasubramanian.A
Sprint-1	Software	USN-2	Develop an application with MIT App inventor(Login page)	10	High	Pugazhenthhi.K, Santhosh.S
Sprint-2	Software and Hardware	USN-3	Connect the hardware with IBM Cloudand API Integration	10	Medium	Vishnu Prasath.S, Balasubramanian.A
Sprint-2	Software	USN-4	Application development for project	10	High	Pugazhenthhi.K, Santhosh.S
Sprint-3	Software	USN-5	Establishing Node-Red connection	10	Medium	Vishnu Prasath.S, Balasubramanian.A
Sprint-3	Software	USN-6	Connecting application with Node-Redand further application development	10	High	Pugazhenthhi.K, Santhosh.S
Sprint-4	Testing	USN-7	Testing developed application andworking model of hardware	20	High	Vishnu Prasath.S, Balasubramanian.A, Pugazhenthhi.K, Santhosh.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 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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 Points = 80

Total Sprint = 4

Average Velocity = $80/4 = 20$

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>