Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID53609
Project Name	Smart Farmer – 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	Manoj D, Pranav S
Sprint-1	Sensors and Actuators	USN-2	As a user, I need to analyse the field parameters select suitable sensors and actuators	10	High	Nithin S, Karthik Rajagopal
Sprint-2	Login	USN-3	As a user, I can log into the application by entering email & password	10	Low	Manoj D, Nithin S
Sprint-2	Dashboard	USN-4	As a user, I can have access to all the sensor data on my dashboard	10	Medium	Pranav S, Karthik Rajagopal
Sprint-3	Control	USN-5	As a user, I can control the agricultural devices connected over internet	10	High	Manoj D, Karthik Rajagopal
Sprint-3	App - Control	USN-6	As a user, I can control the agricultural devices connected over internet	10	Medium	Pranav S, Nithin S
Sprint-4	App – monitor	USN-7	As a user, I can have access to all the sensor data on my app - dashboard	10	Medium	Manoj D, Nithin S, Pranav S
Sprint-4	Setting defaults	USN-8	As a administrator, I can set default conditions to trigger an event	10	Low	Manoj D, Pranav S, Karthik Rajagopal

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)

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

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.

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