Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID37201
Project Name	Project – 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.	3	High	Sowmiya.A
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application .	2	High	Sreekutty.R
Sprint-2	Login	USN-3	As a user, I can log into the application by entering email & password.	3	High	Deepika.R
Sprint-2	Dashboard	USN-4	As a user, I would able to view my account profile and data about my field.	2	Medium	Sanjana.B
Sprint-3	Sensor inputs	USN-5	By using the sensors from the field, I can getdata about temperature, soil, humidity.	4	High	Sowmiya.A
Sprint-3	Weather monitoring	USN-6	I can get accurate weather condition of the field.	2	Medium	Sreekutty.R
Sprint-3	Water level indicator	USN-7	Once the water reaches a certain level in the field, an alert message is received to my mobile.	3	High	Deepika.R
Sprint-4	Smart irrigation system	USN-8	As a user I can switch on/off the motor at anytime from anywhere	4	High	Sanjana.B

Sprint-4	Logout	USN-9	After finishing the process I can logout from the application	2	Low	Sowmiya. 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	5	6 Days	31 Oct 2022	31 Oct 2022	5	31 November 2022
Sprint-2	5	6 Days	06 Nov 2022	06 Nov 2022	5	06 November 2022
Sprint-3	9	6 Days	12 Nov 2022	12 Nov 2022	9	12 November 2022
Sprint-4	6	6 Days	18 Nov 2022	18 Nov 2022	6	18 November 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.

SPRINT	Start Hours	DAY 1-Hours Spent	DAY 2-Hours Spent	DAY 3-Hours Spent	DAY 4-Hours Spent	DAY 5-Hours Spent	DAY 6-Hours Spent	Total Hours
Sprint - 1	10	3	2	2	1	2	0	10
Sprint - 2	9	2	1	2	1	2	1	9
Sprint - 3	15	4	3	1	2	3	2	15
Sprint - 4	13	2	3	4	1	2	1	13
Actual Remaining Hours	47	36	27	18	13	4	0	47
Estimated Remaining Hours	47	38	32	20	12	5	0	47