

PROJECT PLANNING PHASE

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

Date	18 October 2022
Team ID	PNT2022TMID35809
Project Name	IOT based Smart Crop Protection for Agriculture
Maximum Marks	8 Marks

PRODUCT BACKLOG, SPRINT SCHEDULE, AND ESTIMATION : (4 MARKS)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	User can register for the application by entering email, password, and confirming password in mobile app.	8	High	JAGAN.C, SHINTHU BARGAVI.V MAHENDIRAN.V, SUBALAKSHMI SARVANI.S
Sprint-1		USN-2	User will receive confirmation email once registered for the application	13	High	JAGAN.C, SHINTHU BARGAVI.V MAHENDIRAN.V, SUBALAKSHMI SARVANI.S
Sprint-2	Login	USN-3	User can access the mobile application by entering email and password	5	Low	JAGAN.C, SHINTHU BARGAVI.V

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Dashboard	USN-4	User can view the climatic condition	5	Medium	JAGAN.C, SHINTHU BARGAVI.V MAHENDIRAN.V, SUBALAKSHMI SARVANI.S
Sprint-3		USN-5	User can view different type of sensor value monitoring in the field	5	High	JAGAN.C, SHINTHU BARGAVI.V MAHENDIRAN.V
Sprint-4		USN-6	User can able to control and monitor the field manually depending upon the data report shown	5	Medium	JAGAN.C, SHINTHU BARGAVI.V MAHENDIRAN.V, SUBALAKSHMI SARVANI.S
Sprint-4	Controls	USN-1	User can able to get alert notification when threat is detect.	5	Low	MAHENDIRAN.V, SUBALAKSHMI SARVANI.S
		USN-2	User can able to turn on the motor pump / buzzer/Light system to overcome threats in field.	5	High	JAGAN.C, SHINTHU BARGAVI.V
Sprint-2	Technical support team	USN-1	User can contact and get the support from technical assistant when there is issue in IOT system	2	Medium	JAGAN.C, SHINTHU BARGAVI.V MAHENDIRAN.V, SUBALAKSHMI SARVANI.S
Sprint-3	Service assistant	USN-1	User can get service availability for the entire smart system periodically.	5	Medium	JAGAN.C, SHINTHU BARGAVI.V
Sprint-3		USN-2	User can get immediate response from the service assistant about functionality of the system.	5	Low	MAHENDIRAN.V, SUBALAKSHMI SARVANI.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Security	USN-1	User data is secured and end to end encrypted with password based system.	13	High	MAHENDIRAN.V, SUBALAKSHMI SARVANI.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	21	6 Days	24 Oct 2022	29 Oct 2022	21	1Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	7 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

VELOCITY:

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{6} = 3.333$$

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.

