

PROJECT PLANNING PHASE

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

Date	9 November 2022
Team ID	PNT2022TMID51132
Project Name	IoT Based Smart Crop Protection System 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	Aarthi M Jayashree K
Sprint-1		USN-2	User will receive confirmation email once registered for the application.	13	Medium	Nivenithaas ri R, Backiyalaksh hmi R
Sprint-2	Login	USN-3	User can access the mobile application by entering email and Password.	10	High	Aarthi M, Backiyalaksh mi R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Technical support team	USN-4	User can contact and get the support from technical assistant team whenever there is issue in IOT system.	2	Medium	Nivenithaasri R, Jaya shree K
Sprint-2	Security	USN-5	User data is secured and end-to-end encrypted with password-based system.	13	High	Backiyal -akshmi , Aarthi M
Sprint-3	Service assistant	USN-6	User can get service availability for the entire smart system periodically.	5	Medium	Aarthi M Nivenithaasri R
Sprint-3	Service assistant	USN-7	User can get immediate response from the service assistant about functionality of the system.	5	Low	Jayashree K, Backiyalakshmi R
Sprint-3	Dashboard	USN-8	User can detect whether any animal is in the field or not.	5	Medium	Nivenitha asri R, Jaya ShreeK
Sprint-3		USN-9	User can view the sensor output that is monitored in the field.	5	High	Backiyalaks hmi R, Aarthi M.
Sprint-4		USN-10	User can able to control and monitor the field manually depending upon the data report shown (sensor output value).	5	Medium	AARTHI M , JAYA SHREE K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Controls	USN-11	User can able to get alert notification when threat is detected.	5	Low	Nivenitha asri R, Jaya ShreeK
Sprint-4	Controls	USN-12	User can able to turn on the motor pump / buzzer/Light system to overcome threats in field.	5	High	Aarthi M, Backiyalaks hmi R

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	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:

$$AV = \frac{\text{total story points}}{\text{sprint duration}} = \text{velocity}$$

20
6

= 3. 333

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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.

