Project Planning Phase

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Date	22 October 2022						
Team ID	PNT2022TMID34905						
Project Name	IoT Based Smart Crop Protection System for Agriculture						
Maximum Marks	8 Marks						

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

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

		User Story Number	User Story / Task	Story Points	Priority (Low to High)	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the required dataset by entering my email, password, and confirming my password.	3	High	Gayathri R A
Sprint-1		USN-2	As a user, I will receive confirmation email and the SMS once I have registered for the application		High	Gayathri R A
Sprint-2	Cloud services	USN-3	As a user, I can register for the application through any social media	1 Low		Devi Sowmiya S
Sprint-4		USN-4	As a user, I can register for the application through Gmail/SMS	3 Medium		Faumina Zafiral Feroz
Sprint-3	Login	USN-5	As a user, I can log into the application network by entering email & password	4 High		Farzana Fathima A
Sprint-2	Pre processing	USN-6	As a farmer, the user must be able to find the system easy to access so pre-processes and other task must be perfect.	3	High	Devi Sowmiya S
Sprint-1	Collecting Dataset	USN-7	To collect various sources of threats to crops and products and to developing a dataset.			Gayathri R A
Sprint-4	Integrating	USN-8	To integrate the available dataset and keep improving the accuracy of crops yield.	4 High		Faumina Zafirah Feroz
Sprint-3		USN-9	To find and use appropriate compiler to run and test the data so that we can implement our program	2 Low		Farzana Fathima A
Sprint-2		USN-10	Request todeploy the project.	1 Low		Devi Sowmiya
Sprint-4	Coding	USN-11	To modify the code according to our program and improve the efficiency of that code	2 High		Faumina Zafiral Feroz
Sprint-2		USN-11	To improve performance	2 Low		Devi Sowmiya S
Sprint-3	Dashboard	USN-6	User can see order details and equipment details.	4 Medium		Farzana Fathima A
Sprint-2	Record	USN-5	To record the data and plot the graph to show the characteristics officially	3 High		Devi Sowmiya S Farzana Fathima A
Sprint-1	Planning	USN-4	Plan the programming language and feasibility	2 Medium		Gayathri R A
Sprint-4		USN-14	Demonstrate the working and improve accuracy overall	1	Low	Faumina Zafiral Feroz

Project Tracker, Velocity & Burn down Chart: (4 Marks

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date (Actual)
					(as on Planned End	
					Date)	
Sprint-1	10	5 Days	22 Oct 2022	26 Oct 2022	10	22 Oct 2022
Sprint-2	10	5 Days	27 Oct 2022	31 Oct 2022	10	29 Oct 2022
Sprint-3	10	5 Days	1 Nov 2022	5 Nov 2022	10	3 Nov 2022
Sprint-4	10	6 Days	7 Nov 2022	12 Nov 2022	10	10 Nov 2022

Velocity:

We have a 21-day sprint duration, and the velocity of the team is 10 (points per sprint). To Find: Calculate the team's average velocity (AV) per iteration unit (story points per day)

Velocity =
$$\frac{\text{sprint duration}}{\text{Velocity}} = \frac{21}{10} = 2.1$$

Burn down 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.

