Project Planning Phase

Date	11 November 2022
Team ID	PNT2022TMID18907
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)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points (40)	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	Giftson Jebasingh D
Sprint-1		USN-2	As a user, I will receive confirmation email and the SMS once I have registered for the application	2	High	Elamathi G
Sprint-2	Cloud services	USN-3	As a user, I can register for the application through Facebook or any social media	1	Low	Jeyanesh V
Sprint-4		USN-4	As a user, I can register for the application through Gmail/web service	2	Medium	Giftson Jebasingh D
Sprint-3	Login	USN-5	As a user, I can log into the application network by entering email & password	4	High	Jeyanesh V
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	Durga Devi S
Sprint-1	Collecting Dataset	USN-7	To collect various sources of animal threats and keep developing a dataset.	3	Medium	Elamathi G
Sprint-4	Integrating	USN-8	To integrate the available dataset and keep improving the accuracy of finding animals	2	High	Durga Devi S
Sprint-3		USN-9	To find and use appropriate compiler to run and test the data so that we can implement our program	1	Low	Jeyanesh V
Sprint-2		USN-10	Request Saveetha Engineering College to deploy the project in our campus and test	1	Low	Durga Devi S
Sprint-1	Training	USN-11	As programmer, we need to train our data perfectly so that the program runs smoothly	3	High	Giftson Jebasingh D
Sprint-3		USN-12	Train the data using out available services and IBM dataset from server and improve that	2	Medium	Elamathi G
Sprint-4	Coding	USN-13	To modify the code according to our program and improve the efficiency of that code	4	High	Durga Devi S
Sprint-2		USN-13	To improve performance	1	Low	Jeyanesh V
Sprint-2	Record	USN-5	To record the data and plot the graph to show the characteristics officially	4	High	Durga Devi S
Sprint-1	Planning	USN-4	Plan the programming language and feasibility	3	Medium	Giftson Jebasingh D
Sprint-4		USN-14	Demonstrate the working and improve accuracy overall	2	Low	Durga Devi 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	20	5 Days	19 Oct 2022	23 Oct 2022	20	23 Oct 2022
Sprint-2	20	5 Days	24 Oct 2022	28 Oct 2022	20	28 Oct 2022
Sprint-3	20	7 Days	29 Oct 2022	4 Nov 2022	20	4 Nov 2022
Sprint-4	20	7 Days	5 Nov 2022	11 Nov 2022	20	11 Nov 2022

Velocity:

We have a 23-day sprint duration, and the velocity of the team is 20 (points per sprint).

<u>To Find</u>: Calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{23}{20} = 1.15$$

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.

<u>Project:</u> IoT Based Smart Crop Protection System for Agriculture