IBM NALAIYA THIRAN PROJECT

Project Planning Phase

Date	21 October 2022
Team ID	PNT2022TMID41830
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			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	Abinaya V
Sprint-1		USN-2	As a user, I will receive confirmation email and the SMS once I have registered for the application		High	Deepika VS
Sprint-2	Cloud services	USN-3	As a user, I can register for the application through Facebook or any social media			G Abirami
Sprint-4		USN-4	As a user, I can register for the application through Gmail/web service	2 Medium		R Gowri
Sprint-3	Login	USN-5	As a user, I can log into the application network by entering email & password	4 High		Abinaya 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		G Abirami
Sprint-1	Collecting Dataset	USN-7	To collect various sources of animal threats and keep developing a dataset.			R Gowri
Sprint-4	Integrating	USN-8	To integrate the available dataset and keep 2 Hig improving the accuracy of finding animals		High	Deepika V S
Sprint-3		USN-9	To find and use appropriate compiler to run and test the data so that we can implement our program			Abinaya V
Sprint-2		USN-10	Request Saveetha Engineering College to deploy the project in our campus and test	1 Low		G Abirami
Sprint-1	Training	USN-11	As programmer, we need to train our data perfectly so that the program runs smoothly			Deepika V S
Sprint-3		USN-12	Frain the data using out available services and BM dataset from server and improve that 2 Medium		Medium	R Gowri
Sprint-4	Coding	USN-13	To modify the code according to our program and improve the efficiency of that code High		Deepika VS	
Sprint-2		USN-13	To improve performance	1 Low		G Abirami
Sprint-2	Record	USN-5	To record the data and plot the graph to show the characteristics officially	4 High		R Gowri
Sprint-1	Planning	USN-4	Plan the programming language and feasibility 3 Medium		Medium	Abinaya v
Sprint-4		USN-14	V-14 Demonstrate the working and improve accuracy overall		Low	Abirami G

Project Tracker, Velocity & Burndown 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	20	5 Days	20 Oct 2022	24 Oct 2022	20	21 Oct 2022
Sprint-2	20	5 Days	25 Oct 2022	29 Oct 2022	20	27 Oct 2022
Sprint-3	20	5 Days	31 Oct 2022	4 Nov 2022	20	2 Nov 2022
Sprint-4	20	7 Days	5 Nov 2022	11 Nov 2022	20	8 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.

