PRE DEVELOPMENT PHASE

PROJECT PLANNING

MILESTONE & ACTIVITY LIST

Project Title : Smart Farmer - IoT Enabled Smart Farming Application

Team Id : PNT2022MID32489

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement Epic	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint 1	User Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	Balamurugan R Diwagar R S Durga Sree S Jayasurya J
		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	Medium	
		USN-3	As a user, I can register for the application through Facebook or Gmail or Both	5	High	
Sprint 2	User Login	USN-4	As a user, I can login to the application by entering the email and password	10	Medium	Balamurugan R Diwagar R S Durga Sree S Jayasurya J
		USN-5	As a user, I can login to the application through Facebook	10	Medium	
Sprint 3	Dash Board Monitoring	USN-6	As a user, I need a application which is smart enough to control and monitor the fields	4	High	Balamurugan R Diwagar R S Durga Sree S Jayasurya J
		USN-7	As a user, I want to know about the temperature and humidity level in order to water the fields	8	High	
		USN-8	As a user, I want to control the field devices(motors)	8	High	
Sprint 4	Software	USN-9	As a user, I want to control the field devices(motors)	10	High	Balamurugan R Diwagar R S Durga Sree S Jayasurya J
		USN-10	As a user, I want to control the field devices(motors)	10	High	

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	29 Oct 2022
Sprint 2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint 3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint 4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

A burndown 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, burndown charts can be applied to any project containing measurable progress overtime.