Project Planning Phase

Date	18 October 2022
Team ID	PNT2022TMID04701
Project Name	Smart Farmer-IOT enabled smart farming application
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	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Rubesh, Nithish
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Priya Dharshini.K, Priya dharshini
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Rubesh, Priyadharshini
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Nithish, Priyadharshini.K
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Priyadharshini.K, Rubesh,Nithish

Sprint	Category	USN	User Story		Priority	Assigned To
Sprint-2	Dashboard	USN-6	As a user, I want to see everything in single widget	2	Medium	Priyadharshini, Rubesh
Sprint-2		USN-7	As a user, I want an organised widgets section	2	High	Priyadharshini.K, Nithish
Sprint-2		USN-8	As a user, I want a graphical/pictorial representation	3	Low	Priyadharshini.K, Priyadharshini,Rubesh, Nithish
Sprint-2	Dashboard	USN-9	As a user, I want a graphical representation of data for better understanding	3	High	Priyadharshini.K, Priyadharshini,Rubesh, Nithish
Sprint-2		USN-10	As a user, I want to see a dashboard where I can customize myself	3	Low	Nithish,Rubesh
Sprint-2	IoT device setup	USN-11	Have to use a least sensor and get better output	1	High	Priyadharshini
Sprint-2		USN-12	As a user, I need a low cost IoT devices for farming	2	High	Priyadharshini.K
Sprint-2		USN-13	As a user, I need multiple sensors for various data	1	High	Nithish
Sprint-3	User Problems	USN-14	As a user, I don't how to use the application	2	Medium	Priyadharshini.K, Priyadharshini
Sprint-3		USN-15	As a user, I need my application to work on most of the mobiles	1	High	Rubesh
Sprint-3		USN-16	As a user, I am facing issue in the application	2	High	Nithish,Rubesh
Sprint-3	Query Clarification	USN-17	As an admin, I give solutions to their queries	2	High	Priyadharshini.K
Sprint-3	Particular Access	USN-18	As an admin, I give access only to authorised person	2	High	Priyadharshini

Sprint-4	Connection with IoT devices	USN-19	As an admin, I ensure the correct working of the devices. If any problem arises it will be shared to user	3	Medium	Rubesh
Sprint-4	Application	USN-20	As a user, I need to control my devices	1	High	Nithish
Sprint-4		USN-21	As a user, I need events for better productivity	2	Low	Nithish,Rubesh
Sprint-4		USN-22	As a user, I need a more info about plants inside an application	2	Medium	Nithish,Rubesh, Priyadharshini.K, Priyadharshini

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	5 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	17 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 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 **Reference:**

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts