Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18 October 2022
Team ID	PNT2022TMID52394
Project Name	Smart Farmer-IoT Enabled smart farming application
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

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 application online by entering my email or mobile number, password and then confirming my password	5	High	Anbukarasi Kowsalya Malini
Sprint-1		USN-2	As a user, I will receive OTP in email or mobile number for user authentication	5	High	Yamuna Ebinesan
Sprint-4	Payment	USN-3	As a user, I can opt for different subscription plans available in the website and make payment for that.	5	Medium	Anbukarasi malini
Sprint-1	Login	USN-4	As a user, if I can log into the application by entering email/mobile number and password	5	High	Yamuna Ebinesan Malini
Sprint-1		USN-5	As a user, if I forget my password I will receive an auto-generated password to reset my password through my email.	5	Medium	Anbukarasi Ebinesan Kowsalya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Dashboard	USN-6	As a user, I can enter into dashboard and view the field and environment parameters	15	High	Malini Ebinesan, Anbukarasi
Sprint-2		USN-7	As a user, I can control motors from the dashboard	5	High	Kowsalya Anbukarasi Malini Yamuna
Sprint-3	Registration and login (Mobile)	USN-8	As a user, I can also register and login using mobile application	10	High	Malini, Yamuna
Sprint-3	Dashboard (Mobile)	USN-9	As a user, I can also view dashboard and control motors using mobile application	10	High	Anbukarasi, Kowsalya
Sprint-4	Payment (Mobile)	USN-10	As a user, I can also pay for subscription using mobile application	5	Medium	Anbukarasi Yamuna Malini Kowsalya Ebinesan
Sprint-4	Storage	USN-11	As a user, I can access data from cloud using Cloudant DB	5	Medium	Anbukarasi, Yamuna
Sprint-4	User Alert	USN-12	As a user, I will receive message alert if field parameters have crossed the critical threshold	5	High	Anbukarasi Ebinesan

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	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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)

$$AV = \frac{sprint\ duration}{velocity} = \ 20/6 = 3.33$$

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.

Burndown Chart