Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	22 October 2022
Team ID	PNT2022TMID30918
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-3	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	Medium	Pavithra P
Sprint-3		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	Medium	Sneha S
Sprint-4	Login	USN-3	As a user, I can login using registered mail id and password	3	Low	Sneha S
Sprint-4	Dashboard	USN-4	As a user, I can see my profile with my agri land details.	5	Medium	Soundammal G
Sprint-3	Monitoring	USN-5	Collecting and monitoring details from agriculture field.	1	Low	Soundammal G
Sprint-1	Software	USN-6	Create and configure IBM Cloud Services	5	High	Sapna Priya J
Sprint-1		USN-7	Create IBM Watson IoT Platform .	5	High	Pavithra P
Sprint-1		USN-8	Create a device & configure the IBM IoT Platform	5	High	Sneha S
Sprint-1		USN-9	Create Node-RED service	4	High	Soundammal G
Sprint-2		USN-10	Create a database in Cloudant DB to store all the sensor parameters	5	High	Sapna Priya J

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Coding	USN-11	Develop a python script to publish and subscribe to the IBM IoT platform	7	High	Sneha S
Sprint-2		USN-12	Configure the Node-RED and create APIs for communicating with mobile application	6	High	Pavithra P
Sprint-3	Application	USN-13	Develop a mobile application to display the sensor parameters and control the motors	7	High	Sapna Priya J
Sprint-4	Evaluating	USN-14	Checking functionalities of the app	1	Low	Sapna Priya J
Sprint-4		USN-15	Evaluate the performance of the application	2	Low	Pavithra P

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	18	6 Days	31 Oct 2022	05 Nov 2022	18	27 Oct 2022
Sprint-3	11	6 Days	07 Nov 2022	12 Nov 2022	11	2 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	10	7 Nov 2022

Velocity:
Imagine we have a 23-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)

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

Burndown Chart: