Project Planning Phase

Date	22 October 2022
Team ID	PNT2022TMID43402
Project Name	IOT Enabled smart farming
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		US-1	Create the IBM Cloud services which are being used in this project.	6	High	Prawin Balaji K S Sridharan S N,
Sprint-1		US-2	Configure the IBM Cloud services which are being used in completing this project.	4	Medium	Sriram Naren S Vasanth G
Sprint-1		US-3	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.	5	Medium	Sridharan S N, Prawin Balaji K S

Sprint-1	US-4	In order to connect the IoT device to the IBM	5	High	Sriram Naren S
		cloud, create a device in the IBM Watson IoT			Vasanth G
		platform and get the device credentials.			
Sprint-2	US-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	10	High	Sridharan S N Prawin Balaji K S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		US-2	Create a Node-RED service.	10	Medium	Vasanth G Sriram Naren S
Sprint-3		US-1	Develop a python script to publish random sensor data such as temperature, moisture, soil and humidity to the IBM IoT platform	7	High	Sridharan S N Prawin Balaji KS
Sprint-3		US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	Medium	Vasanth G Sriram Naren S
Sprint-3		US-3	Publish Data to The IBM Cloud	8	High	Prawin Balaji K S Vasanth G Sridharan S N Sriram Naren S
Sprint-4		US-1	Create Web UI in Node- Red	10	High	Prawin Balaji K S Vasanth G Sridharan S N Sriram Naren S

Sprint-4	US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB	10	Medium	Prawin Balaji K S Vasanth G Sridharan S N Sriram Naren S	
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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)

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