Project Planning Phase

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

Date	**20 October 2022**
Team ID	**PNT2022TMID11029**
Project Name	**IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE**
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 the application by entering my email, password, and confirming my password.	2	High	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-1		USN-3	As a user, I can register for the application through Facebook	2	Low	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M

Sprint-1	Dashboard	USN-6	As a user, I can log into the application by entering email & password and access all the resources and services available	2	High	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Login	USN-1	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.	3	High	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-2	Dashboard	USN-2	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	2	Medium	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-3	Login	USN-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform..	3	High	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-3	Dashboard	USN-2	After developing python code, commands are received just print the statements which represent the control of the devices.	2	Medium	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-4	Login	USN-1	Create Web UI in Node- Red	3	High	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M
Sprint-4	Login	USN-1	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	2	Medium	Manoj S Manoj P Muthu Kumaran G Mohammedolibava M

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		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		

Sprint-4	20	6 Days	14 Nov 2022	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)

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