

## Project Planning Phase

Date	22 October 2022
Team ID	PNT2022TMID23211
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	Login	US-1	Create the IBM Cloud services which are being used in this project.	6	High	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-1	IBM Cloud	US-2	Configure the IBM Cloud services which are being used in completing this project.	4	Medium	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-1	Python	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	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-2	IBM Cloud	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	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-2	IBM Cloud	US-4	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.	5	High	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-3	Node-Red	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	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-3	Node-Red	US-2	Create a Node-RED service.	10	High	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Python	US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	Medium	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-4	IBM Cloud	US-3	Publish Data to The IBM Cloud	8	High	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-4	Node-Red	US-1	Create Web UI in Node- Red	10	High	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini
Sprint-4	Node-Red	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	High	J M Kanakadurga R Keerthana S S Sai Swaroopa S Yazhini

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

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

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

### Burndown Chart

A burndown 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, burndown charts can be applied to any project containing measurable progress overtime.

smartcropprotection - Roadmap

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	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	OCT							NOV							NOV							NOV								
Sprints		SMAR Sprint 1							SMAR Sprint 2							SMAR Sprint 3							SMAR Sprint 4							
SMAR-7 Registration																														
SMAR-15 Login																														
SMAR-16 IBM cloud																														
SMAR-17 Node red																														
SMAR-18 Python																														
+ Create Epic																														

Today Weeks Months Quarters Quickstart

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