

## PROJECT PLANNING PHASE

### PROJECT PLANNING TEMPLATE (PRODUCT BACKLOG, SPRINT PLANNING, STORIES, STORY POINTS)

<b>TEAM ID</b>	PNT2022TMID15088
<b>PROJECT DOMAIN</b>	IOT
<b>PROJECT TITLE</b>	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
<b>DATE</b>	15 November 2022
<b>MAXIMUM MARKS</b>	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	IBM Cloud Services	USN-1	Create a Cloud Account in IBM	10	High	Sowmiya.B Rajalakshmi.G Priyadarshini.S Nethraa.T
	Python IDE	USN-2	Install the Python IDE	5	High	Sowmiya.B Rajalakshmi.G Priyadarshini.S Nethraa.T
	Clarifai	USN-3	Create an Account in Clarifai	5	High	Sowmiya.B Rajalakshmi.G Priyadarshini.S Nethraa.T
Sprint-2	IBM Watson Platform	USN-4	Create IBM Watson IoT Platform and Device	5	High	Sowmiya.B Rajalakshmi.G Priyadarshini.S Nethraa.T
	Node Red Services	USN-5	Create Node Red Services (To Create a Web Application)	4	High	Sowmiya.B Rajalakshmi.G Priyadarshini.S Nethraa.T
						Nethraa.T

	Cloudant DB	USN-6	Create a Database in Cloudant DB (To Store the Image URL, Launch the Cloudant DB)	4	High	Rajalakshmi.G Priyadarshini.S
	Cloud Object Storage	USN-7	Create a Cloud Object Storage Service	4	High	Sowmiya.B Nethraa.T

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Python Code	USN-8	Develop a Python Script	15	High	Sowmiya.B Priyadarshini.S
Sprint-4	Web UI(User Interface)	USN-9	Develop a Web Application using Node-RED Service. (Display the image in the Node-RED web UI and also display the temperature, humidity, and soil moisture levels. )	15	High	Rajalakshmi.G Nethraa.T

#### 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	3 Days	15 Nov 2022	18 Nov 2022	20	
Sprint-2	20	3 Days	20 Nov 2022	23 Nov 2022	20	
Sprint-3	20	3 Days	25 Nov 2022	28Nov 2022	20	
Sprint-4	20	3 Days	29 Nov 2022	1 Dec 2022	20	

#### 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)

$$AV = \text{Sprint Duration} / \text{Velocity} = 24/3 = 8$$

## **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.