

## Project Planning Phase

### Project Planning Template

Date	5 November 2022
Team ID	PNT2022TMID10974
Project Name	Project –IoT Based Smart Crop Protection 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	IBM Cloud Services	USN-1	Create a Cloud Account in IBM	10	High	Bhrintha P Divya A Janavigha P Jayasurya S
Sprint-1	Software	USN-2	Install the Python IDE	5	Medium	Bhrintha P Divya A Janavigha P Jayasurya S
Sprint-1	Clarifai	USN-3	Create an Account in Clarifai (To detect the animals and birds we are using an open-source platform Clarifai.)	5	High	Bhrintha P Divya A Janavigha P Jayasurya S
Sprint-2	IBM Watson Platform	USN-4	Create IBM Watson IoT Platform and Device (It acts as the mediator to connect the web application to IoT device)	5	High	Bhrintha P Divya A Janavigha P Jayasurya S
Sprint-2	Node Red Services	USN-5	Create Node Red Services (To Create a Web Application)	5	High	Bhrintha P Divya A Janavigha P Jayasurya S
Sprint-2	Cloudant DB	USN-6	Create a Database in Cloudant DB (To Store the Image URL, Launch the Cloudant DB)	5	High	Bhrintha P Divya A Janavigha P Jayasurya S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Cloud Object Storage	USN-7	Create a Cloud Object Storage Service	5	High	Bhrintha P Divya A Janavigha P Jayasurya S
Sprint-4	Python Code	USN-8	Develop a Python Script	10	High	Bhrintha P Divya A Janavigha P Jayasurya S

#### 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	15	7 Days	24 Oct 2022	31 Oct 2022	15	31 Oct 2022
Sprint-2	15	7 Days	01 Nov 2022	07 Nov 2022	15	07 Nov 2022
Sprint-3	10	6 Days	08 Nov 2022	13 Nov 2022	10	13 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	20 Nov 2022	10	20 Nov 2022

#### Velocity:

Sprint-1 and Sprint-2

$$AV = \text{Sprint Duration} / \text{Velocity} = 15/7 = 2.14$$

Sprint-3 and Sprint-4

$$AV = \text{Sprint Duration} / \text{Velocity} = 10/6 = 1.6$$