

## PROJECT PLANNING PHASE

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

<b>Date</b>	7 November 2022
<b>Team ID</b>	PNT2022TMID18648
<b>Project Name</b>	IoT Based Smart Crop Protection System for Agriculture
<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

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
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	R. Jawahar Babu
Sprint-1	Login	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	K. Pradhap
Sprint-2	User Interface	USN-3	As a user, I can register for the application through Facebook	3	Low	R. Sudharsan
Sprint-1	Data Visualization	USN-4	As a user, I can register for the application through Gmail	2	Medium	V. ArunKumar
Sprint-3	Registration (Web User)	USN-5	As a user, I can log into the application by entering email & password	3	High	R. Sudharsan
Sprint-2	Dashboard	USN-6	As a user, I can access the features of the application in dashboard.	3	Medium	R. Jawahar Babu
Sprint-4	Cloud Registration	USN-7	As a user, I can store the data in cloud storage for future reference.	2	Medium	K. Pradhap
Sprint-4	Controls	USN-8	As a user, I can control the IoT devices via Mobile and also monitor the field with the help of this IoT devices.	3	High	V. ArunKumar

**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	12 Days	24 Oct 2022	05 Nov 2022	20	29 Oct 2022
Sprint-2	20	8 Days	31 Oct 2022	07 Nov 2022		05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 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)

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

### 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.

