

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

Team ID	PNT2022TMID08360
Project	Estimate the crop yield using Data Analytics
Maximum Marks	8 Marks

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

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	Rich nitheesh
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sudhakar rich
Sprint-2		USN-3	As a user, I can register for the application through Google	2	Low	Prakash rich
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Low	surya nitheesh
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	sudhakar rich
Sprint- 3	Dashboard	USN-6	As a user, I can freely use my dashboard and explore the features	2	High	Rich prakash
Sprint- 2		USN-7	As a user, I can use the credentials to access the resources of my application	2	High	surya prakash
Sprint- 3		USN-8	Performance of Data manipulations on the application	1	High	rich nitheesh
Sprint- 3	Visualizations	USN-9	I can create dashboards with particular datasets	2	High	rich surya
Sprint- 4		USN-10	Predictive analysis can be done	1	High	Prakash rich
Sprint- 3		USN-11	I can create stories with particular datasets	2	High	nitheesh sudhakar
Sprint- 4		USN-12	I can deliver and export reports according to the dashboards and stories created	2	High	Surya rich

**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:**

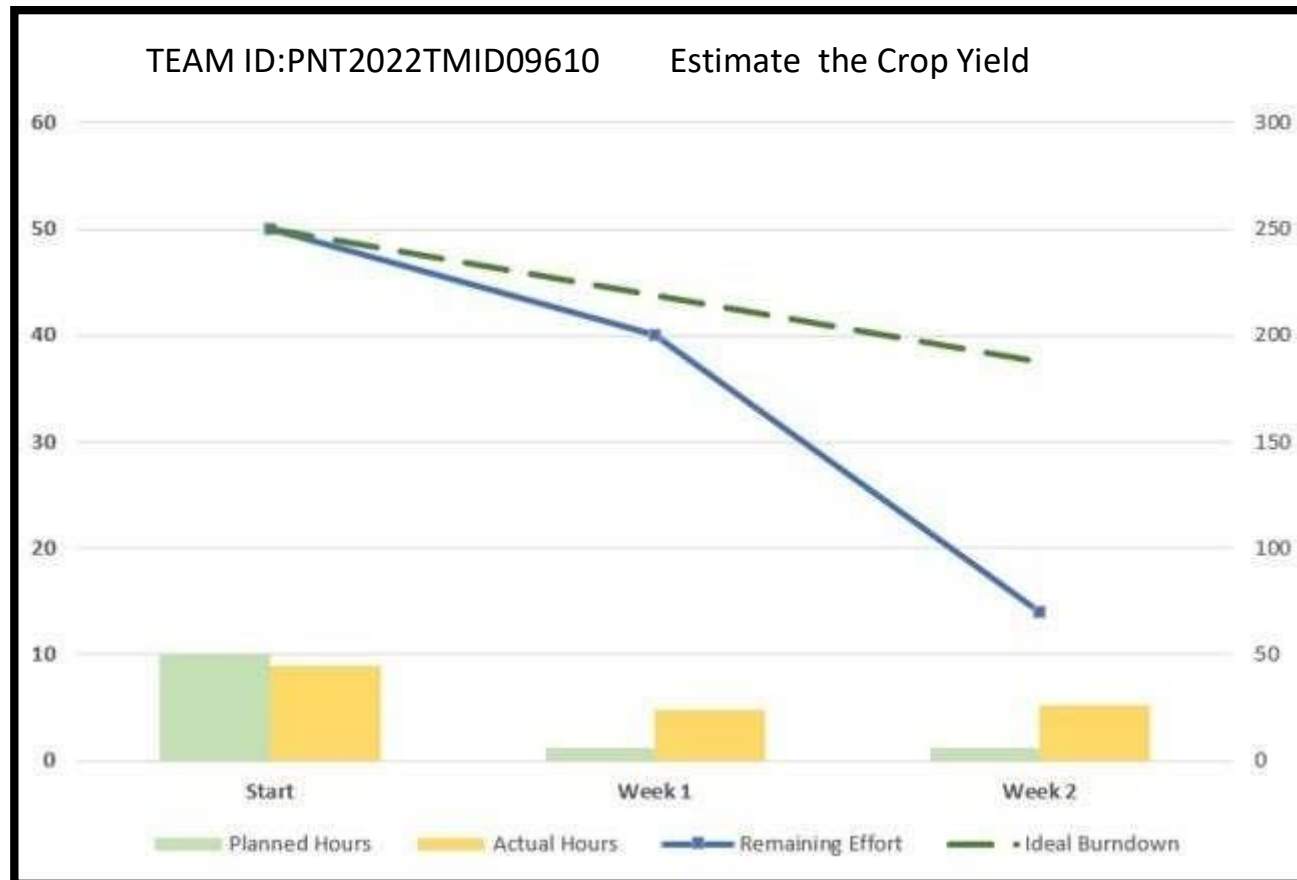
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

$$AV = \text{Sprint Duration} / \text{Velocity} = 20 / 6 = 3$$

### 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.



<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>