

## Project Planning Phase

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

Team ID	PNT2022TMID05966
Project Name	Estimation of crop yield using data analytics
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	Registration	USN-1	user can register for the application by entering my email and password	1	High	PRIYA T
Sprint-1	Registration	USN-2	User will receive email if the registration is successful. That the registration has conformed	1	High	PRIYA T
Sprint-2	Registration	USN-3	As a user, I can register by any browser.	2	Low	KIRUTHIKA K
Sprint-1	Data extract	USN-4	As a user, I can extract data	1	Medium	POOJA J M
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	2	High	PRATIBA T
Sprint-2	Dashboard	USN-6	I can access the dashboard of mine.	1	Medium	POOJA J M
Sprint-1	Activity	USN-7	I can register for the application through any web browser.	1	low	KIRUTHIKA K
Sprint-1	Access resources	USN-8	I can use my credentials For accessing my resources.	1	high	PRIYA T
Sprint-2	Set events	USN-9	As, a user I can schedule events and set events.	1	high	PRATIBA T
Sprint-3	Tools	USN-10	I can perform analysis by tools(cognos and with ML)	1	high	POOJA J M

**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 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.

