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

Date	18 October 2022
Team ID	PNT2022TMID03360
Project Name	Project – Estimation of Crop Production
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.	5	High	Manikandan P Mohamed Nowfal S
		USN-2	As a user, I will receive confirmation email once I have registered for the application	4	Medium	Sreejith G
		USN -3	Creating a website for the login application	4	Medium	Sanjeev M
		USN – 4	Upload the dataset into the cognos analytics	2	Low	Sreejith G
		USN – 5	Create a new dashboard	5	High	Manikandan P
Sprint-2	Data Visualization Chart	USN-6	Build a Visualization to showcase Average Crop Production by Seasons.	5	Medium	Mohamed Nowfal S Sreejith G
			Showcase the Yearly usage of Area in Crop Production	4	Medium	Sanjeev M Manikandan P
			Top 10 States in Crop Yield Production by Area.	4	Medium	Sreejith G
			Crop Production by State.	4	Medium	Mohamed Nowfal S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			States with Seasonal Crop Production using a Text representation.	3	Medium	Manikandan P Sreejith G
Sprint-3	Creating The dashboard	USN-7	Create the Dashboard by using the created visualizations.	20	High	Sanjeev M Manikandan P Mohamed Nowfal S Sreejith G
Sprint-4	Export The Analytics	USN-8	Finally export the created dashboard	20	High	Mohamed Nowfal S Sanjeev M

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	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)

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

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.

BURNDOWN CHART

Actual Effort — Estimated Effort

	Day 6	Day 12	Day 18	Day 24