Project Planning Phase

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

Date	15 February 2025
Team ID	PNT2025TMID02626
Project Name	Global Food Production Trend and Analysis A Coprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	5 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	Data Collection and Integration	USN-1	As a data analyst, I want to integrate global food production data from various sources into power BI.	4	High	1.Prerana Kamble. 2.Prachi Vastre. 3.Soundarya Udagatti. 4.Pradnya Mahadik.
	Data Cleaning and Transformation	USN-2	As a data analyst, I want to clean and transform the raw data into a usable format for power BI.	4	High	
	Data Analysis and Trend Identification	USN-3	As a data analyst, I want to identify trends in global food production.	3	High	
Sprint-2	Report and Dashboard design	USN-4	As a data analyst, I want to create a Power BI dashboard that show the global food production trends by country.	5	High	1.Prerana Kamble. 2.Prachi Vastre. 3.Soundarya Udagatti. 4.Pradnya Mahadik.
	Visualization for Insights	USN-5	As a data analyst, I want to create different visualizations.	4	Medium	
Sprint-3	Forecasting and Predictive Analytics	USN-6	As a data analyst, I want to apply forecasting models in Power BI to predict future trends in food production.	5	Medium	1.Prerana Kamble. 2.Prachi Vastre. 3.Soundarya Udagatti. 4.Pradnya Mahadik.
	Data Aggregation and Drill-through	USN-7	As a data analyst, I want to be able to drill down into the data by country ,region, or crop type to gain deeper insights.	4	Medium	

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Final Report and Stakeholder Review	USN-8	As a data analyst, I want to create a final report summarizing the insights and recommendation for global food production trends.	3	Low	1.Prerana Kamble. 2.Prachi Vastre. 3.Soundarya Udagatti. 4.Pradnya Mahadik.
	Final Adjustment's and feedback integration.	USN-8	As a data analyst, I want to incorporate stakeholder feedback into the Power BI reports and dashboards to improve their usefulness.	3	Low	

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	14	10 Days	15 Feb 2025	20 Feb 2025	14	20 Feb 2025
Sprint-2	9	10 Days	21 Feb 2025	28 Feb 2025	9	28 Feb 2025
Sprint-3	20	6 Days	03 Mar 2025	12 Mar 2025	20	12 Mar 2025
Sprint-4	20	2 Days	13 Mar 2025	14 Mar 2025	20	14 Mar 2025

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)

Total Story Points Completed: 58

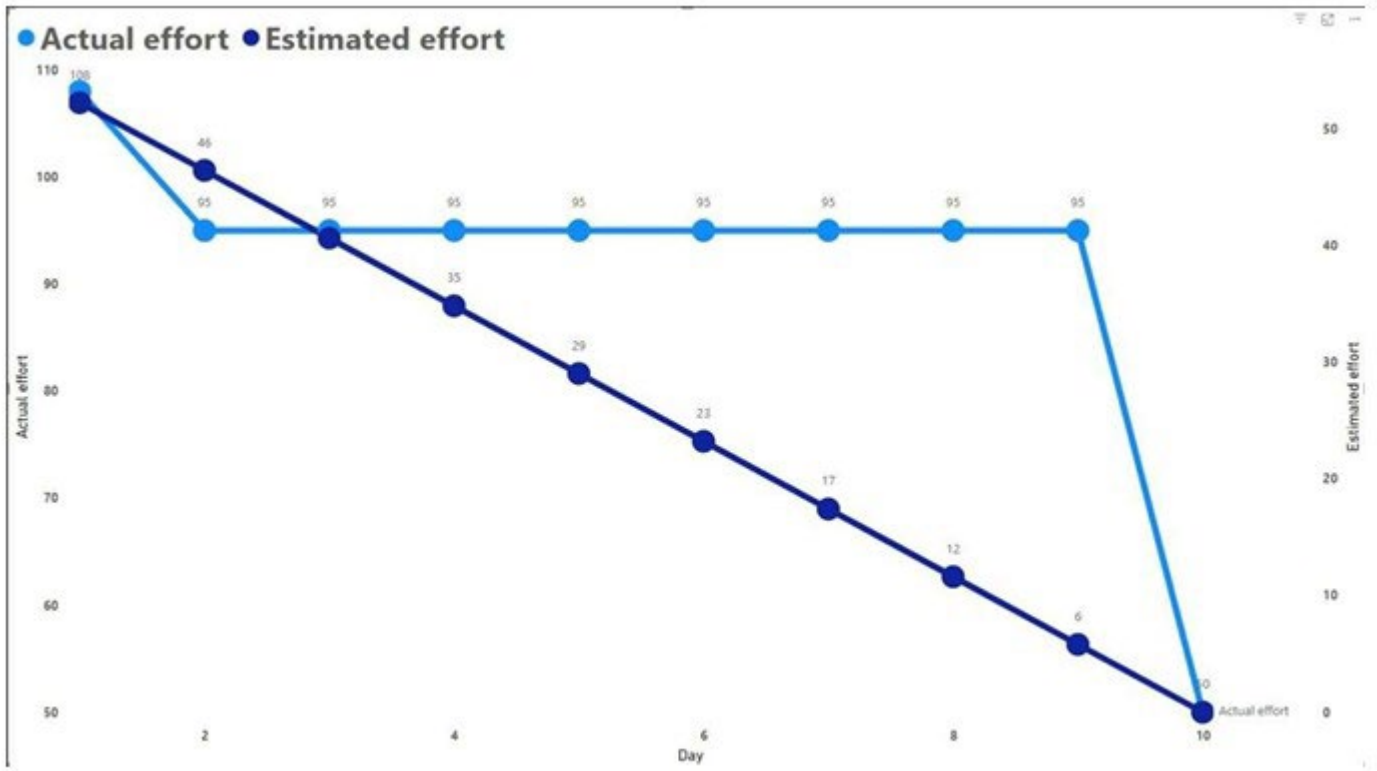
Total Number of Sprints = 4

Velocity = Total Story Points Completed / Number of Sprints Velocity = 58 / 4 ≈ 14.5

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.

Sprint	Day	Total Story Points	Story Points completed	Remaining Story Points
1	1	58	0	58
	2	58	0	58
	3	58	0	58
	4	58	0	58
	5	58	0	58
	6	58	0	58
	7	58	0	58
	8	58	0	58
	9	58	0	58
	10	58	21	37
2	1	58	21	37
	2	58	21	37
	3	58	21	37
	4	58	21	37
	5	58	21	37
	6	58	21	37
	7	58	21	37
	8	58	21	37
	9	58	21	37
	10	58	45	13
3	1	58	45	13
	2	58	58	0


Actual effort
Estimated effort
Actual effort
Estimated effort
Day
110
100
90
80
70
60
50
50
40
30
20
10
0
2
4
6
8
10
108
46
95
95
95
95
95
95
95
95
35
29
23
17
12
6
0
Actual effort