Project Planning Phase

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

Date	28 October 2022
Team ID	PNT2022TMID32817
Project Name	Estimate the 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	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Palaniyappan.R
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	Viswanath.M
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	6	High	R.Srisudharssan
Sprint-1	Dashboard	USN-4	As a user, I can access the dashboard after successful log-in	10	Medium	K.Vaishnavi
Sprint-2	Data pre-processing	USN-5	As a user, I can view/access the raw dataset or transformed dataset	1	Low	Palaniyappan.R
Sprint-2	Upload dataset	USN-6	As a user, I can upload the dataset from the device I use	2	Low	Viswanath.M
Sprint-3		USN-7	As a user, I can view the various visualizations for better understanding of the dataset	10	High	R.Srisudharssan
Sprint-3		USN-8	As a user, I want to see an overview of the various crops and its yield season/region	10	Medium	K.Vaishnavi
Sprint-2	Descriptive analysis	USN-9	As a user, I want to know what happened in the past	15	Low	Palaniyappan.R
Sprint-2		USN-10	As a user, I want to view the relationships between various data fields	2	Medium	Viswanath.M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Report	USN-11	As a user, I want to see the various reports based on the previous year's crop yield	9	High	R.Srisudharssan
Sprint-4	Predictive analysis	USN-12	As a user, I want to identify the likelihood of future outcomes based on the past	9	High	K.Vaishnavi

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)

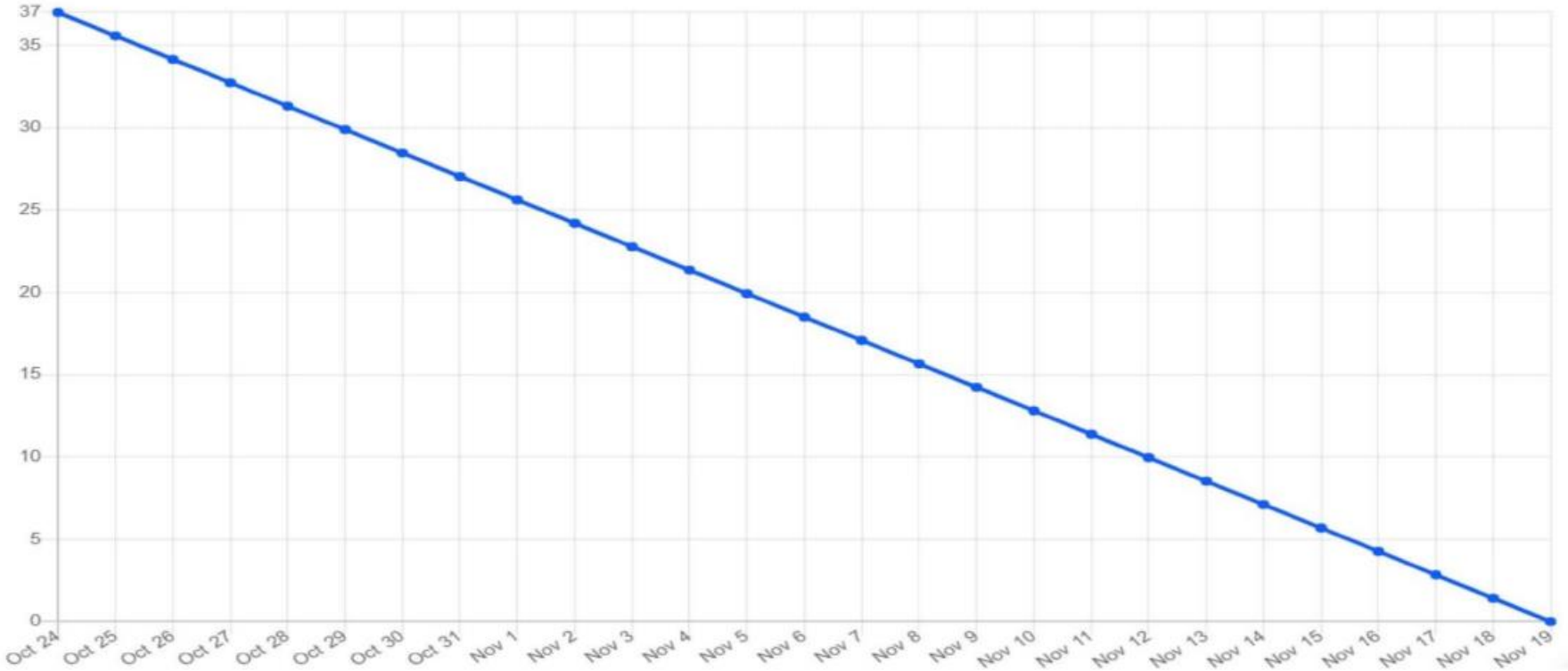
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Average Velocity
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20/6 = 3.33
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20/6 = 3.33
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20/6 = 3.33
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20/6 = 3.33

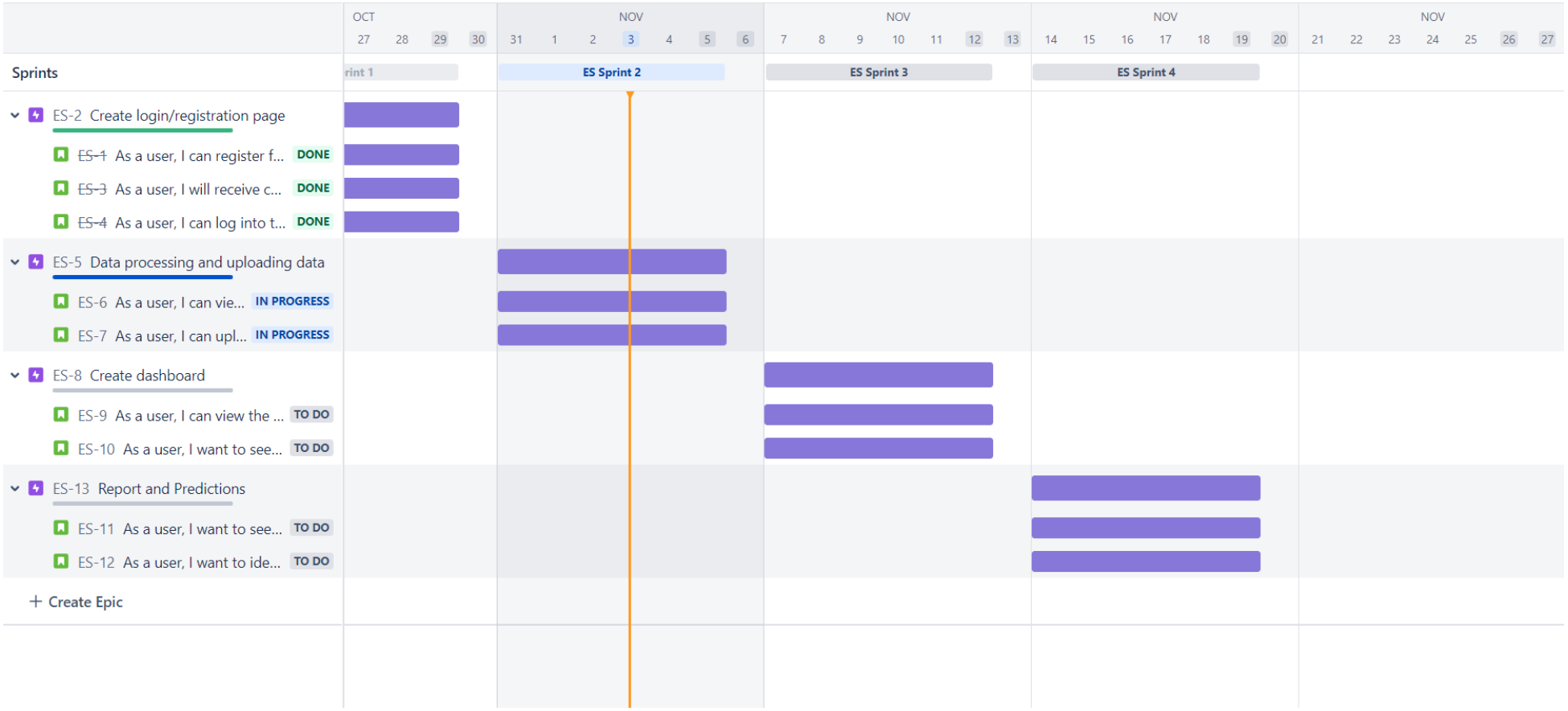
Burndown Chart:

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.

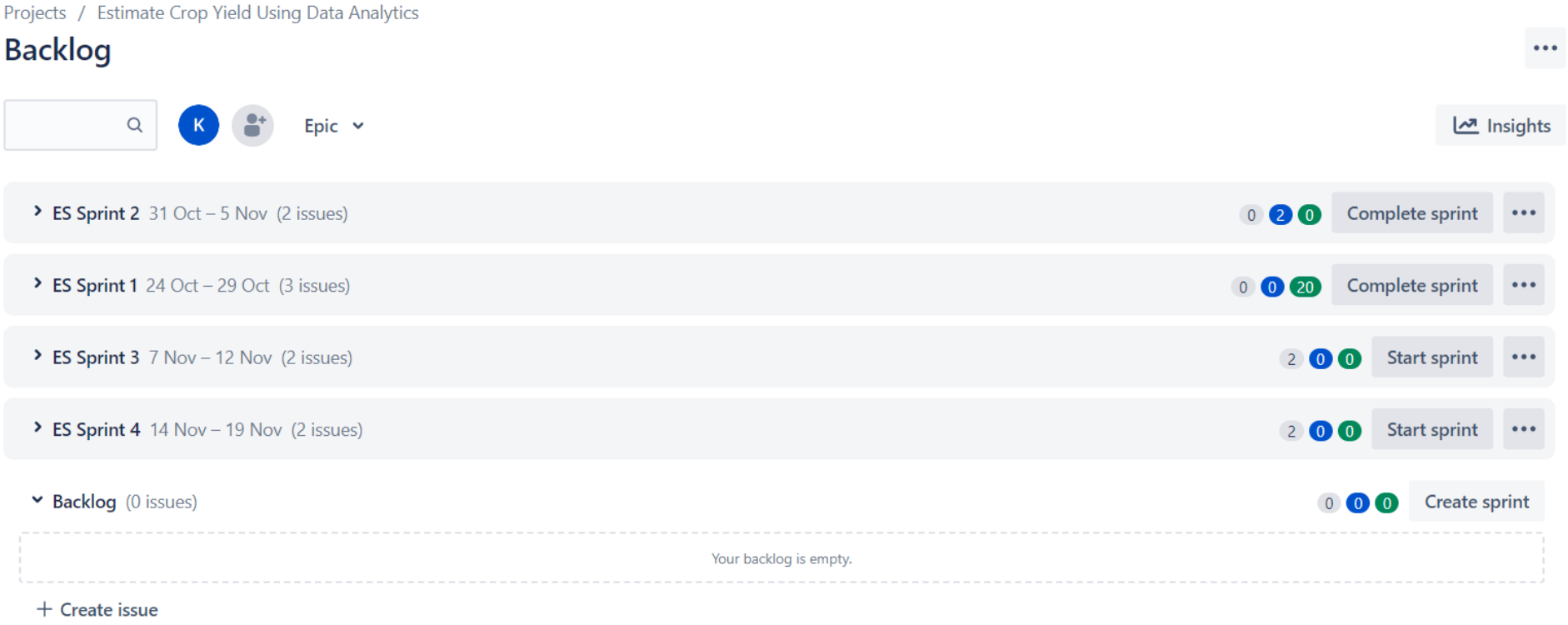
Overall Burndown Chart:



Planning Tool:



Backlog:


Projects / Estimate Crop Yield Using Data Analytics
Backlog
K
Epic
Insights
ES Sprint 2 31 Oct – 5 Nov (2 issues)
0 2 0
Complete sprint
ES Sprint 1 24 Oct – 29 Oct (3 issues)
0 0 20
Complete sprint
ES Sprint 3 7 Nov – 12 Nov (2 issues)
2 0 0
Start sprint
ES Sprint 4 14 Nov – 19 Nov (2 issues)
2 0 0
Start sprint
Backlog (0 issues)
0 0 0
Create sprint
Your backlog is empty.
Create issue