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

Date	9 November 2022
Team ID	PNT2022TMID51001
Project Name	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	Number of meetings conducted / to be conducted
Sprint-1	IBM Cloud Account Creation	1	Only after creating an IBM account, the user would be enabled to use IBM's services	2	Medium	Dharini B, Gifty Sharon K, Bhuja Shri R, Dharsana R, Kavithanjali K	2
	IBM Cognos Account Creation	2	Account Creation of IBM Cognos is necessary as it is used for visualization	5	High	Dharini B, Gifty Sharon K, Bhuja Shri R, Dharsana R, Kavithanjali K	
	Working with the Dataset	3	Understanding the Dataset	5	Medium	Dharini B, Gifty Sharon K,	
		4	Loading the Dataset	8	High	Bhuja Shri R, Dharsana R, Kavithanjali K	
Sprint-2	Data Visualization Charts	5	Seasons with Average Productions	2	High	Dharini B	5
		6	With Years Usage of Area and Production	2	High	Gifty Sharon K,	
		7	Top 10 States with Most Area	2	High	Kavithanjali K	
		8	State with Crop Production	2	High	Dharsana R,	
		9	States with The Crop Production Along with Season	2	High	Bhuja Shri R,	
	Creating the Dashboard	10	A Dashboard has to be created for the visualizations to be presented	5	High	Bhuja Shri R, Dharsana R, Kavithanjali K	

Sprint							
	Export the Analytics	11	The Dashboard is being exported	5	High	Dharini B, Gifty Sharon K	
Sprint-3	Creating The Report	12	A Report has to be created for the visualizations to be presented	5	High	Dharini B, Gifty Sharon K	2
	Export the Report	13	The Report is being exported	5	High	Bhuja Shri R, Dharsana R, Kavithanjali K	
Sprint-4	Creating The Story	14	A Story has to be created for the visualizations to be presented	5	High	Bhuja Shri R, Dharsana R, Kavithanjali K	2
	Export the Story	15	The Story is being exported	5	High	Dharini B, Gifty Sharon K	

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	12	6 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	0	8 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	10	9 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	10	9 Nov 2022

Velocity:

we have a 24-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 = Sprint Duration / Velocity = 12 / 20 = 0.6

The above average velocity is for Sprint-1, Sprint-2

AV = Sprint Duration / Velocity = 12 / 10 = 1.2

The above average velocity is for Sprint-3, Sprint-4
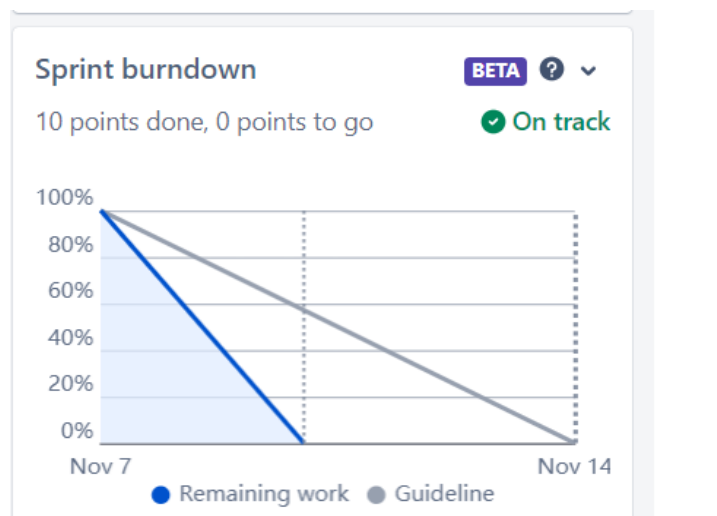
Burndown Chart:

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.

As we have completed the sprint-1, after the due date, we were not able to receive a burndown chart.

The burndown chart for sprint-2 is as follows:
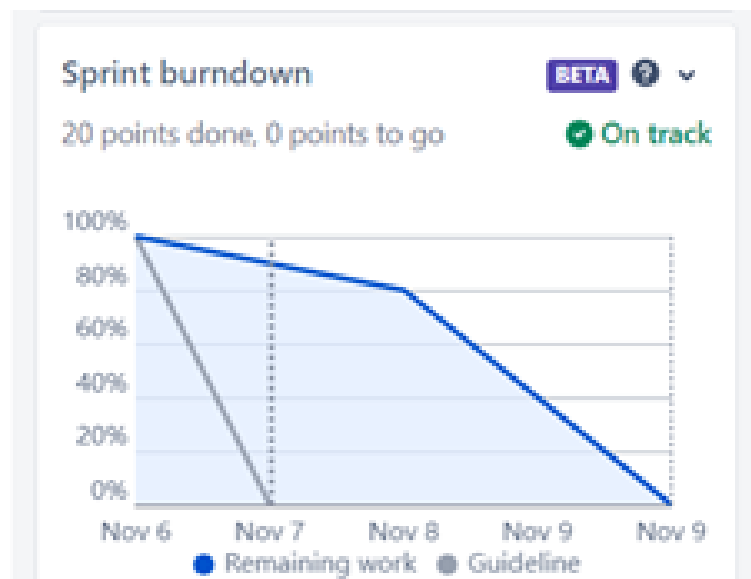
The burndown chart for sprint-3 is as follows:

The burndown chart for sprint-4 is as follows: