Project Planning Phase

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

Team ID	PNT2022TMID26463
Project Name	Retail Store Stock Inventory Analytics

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Input	USN-1	As a user, I can give barcode as inputs for product information ordered by the customer.	2	High	Venkata Sriram , Venkada Ramanan P
Sprint-1		USN -2	As a user, I can give manual product information ordered by the customer.	1	High	Tulasi Malini V K , Venkada Ramanan P
Sprint-1		USN-3	As a user, I can search any products via above mentioned methods.	1	High	Tulasi Malini V K , Vignesh S
Sprint-1	Stock Data Base	USN-4	As a user, I can access the database and view the reports previously generated	2	High	Venkata Sriram , Venkada Ramanan P
Sprint-1	Analysis	USN-5	Analysis of the data can be done.	2	High	Tharani K , Vignesh S
Sprint-2	Prediction	USN-6	Stock can be predicted based the analysis generated.	1	High	Tharani K , Tulasi Malini V K
Sprint-2	Registration	USN-7	As a user, I can register for the application by entering my details like email, phone number, password, etc.	2	High	Venkatasriram S , Venkada Ramanan P
Sprint-2		USN-8	As a user, I will receive confirmation	1	Medium	Venkatasriram S , Vignesh S

			email once I have registered for the application			
Sprint-2		USN-9	As a user, I can register for the application through Gmail	1	High	Venkatasriram S , Tulasi Malini V K
Sprint-2		USN-10	As a user, I can register for the application through Facebook	1	Low	Venkatasriram S , Tharani K
Sprint-2	Login	USN-11	As a user, I can log into the application by entering email & password	2	High	Venkada Ramanan P , Vignesh S
Sprint-3	Dashboard	USN-12	ROI Visualisation	2	High	Venkada Ramanan P , Tharani K
		USN-13	As a user, I can view my profile and update my profile.	1	High	Vignesh S , Tulasi Malini V K
Sprint-3		USN-14	As a user, I can view the categorised product available	1	Medium	Tharani K , Venkada Ramanan P
Sprint-3	Report generation	USN-15	As a user, I can generate report based on history & prediction	2	High	Venkatasriram S , Vignesh S
Sprint-3	Notification System	USN-16	As a user, I can view notifications generated	1	High	Tharani K , Venkatasriram S
Sprint-3		USN-17	As a user, I can change the notification settings based on my need	1	Medium	Vignesh S , Tharani K
Sprint-4	Bill Generation	USN-18	As a user, I can generate bills	2	High	Tulasi Malini V K , Vignesh S
Sprint-4	Discount Prediction System	USN-19	As a user, I can view and update discount-based credit points available	2	Medium	Tharani K , Vignesh S
Sprint-4	Order Stock	USN-20	As a user, I can order stock based on the analysed prediction data	2	High	Vignesh S , Tharani 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	8	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	8	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	8	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	6	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 = Sprint1 Duration/Velocity = 8/6 = 1.3333

AV = Sprint2 Duration/Velocity = 8/6 = 1.3333

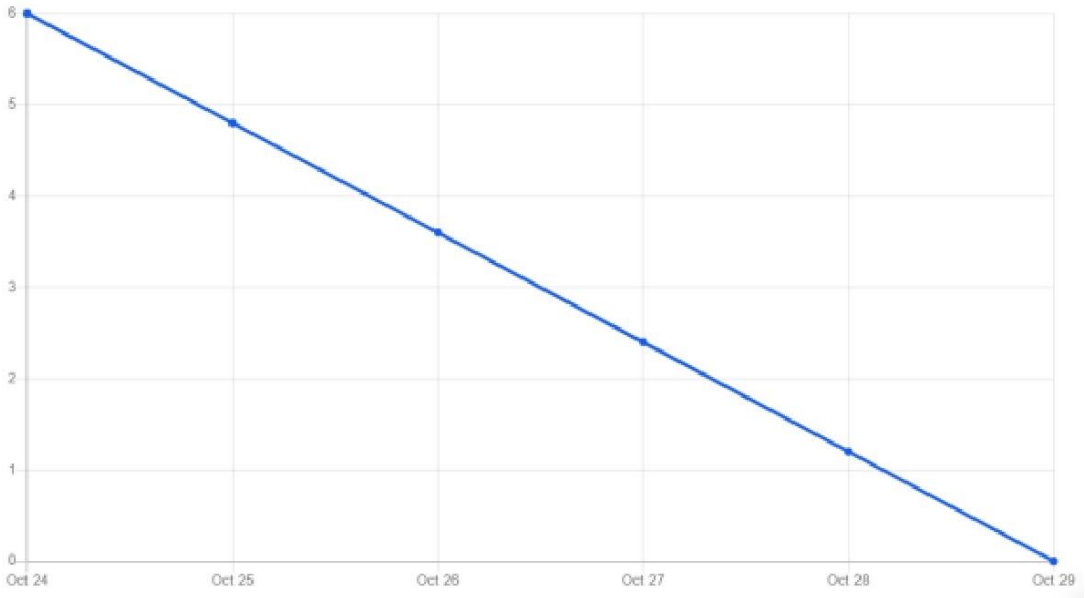
AV = Sprint3 Duration/Velocity = 8/6 = 1.3333

AV = Sprint4 Duration/Velocity = 6/6 = 1

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.

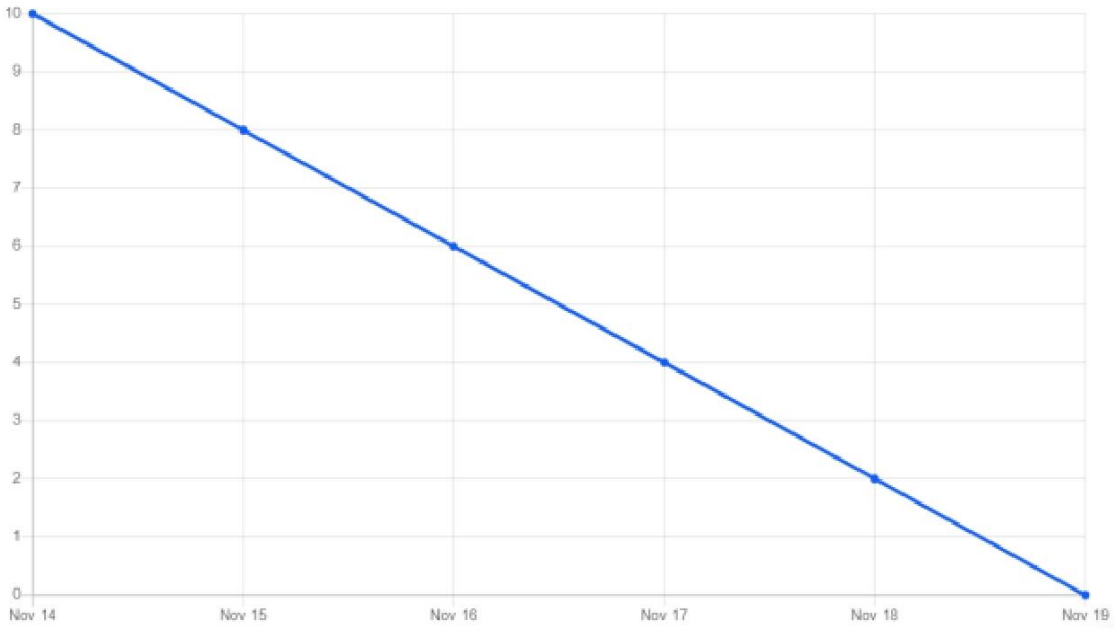
Sprint - 1:



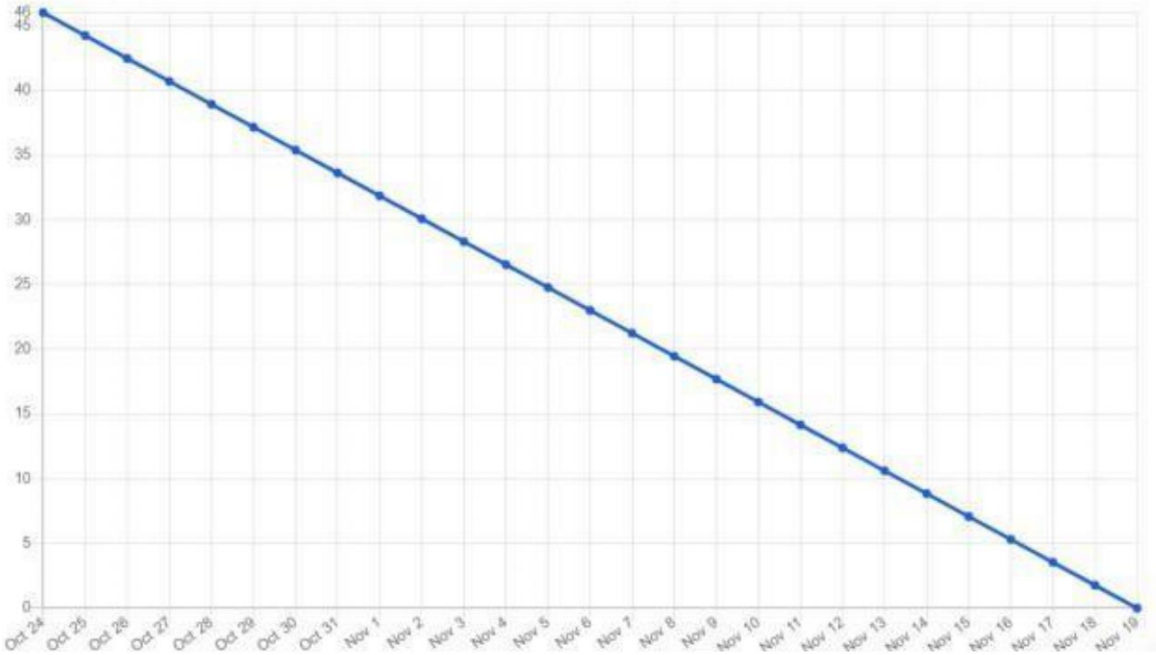
Sprint – 2:

Sprint – 3:

Sprint – 4:



Overall:


46
45
40
35
30
25
20
15
10
5
0
Oct 24
Oct 25
Oct 26
Oct 27
Oct 28
Oct 29
Oct 30
Oct 31
Nov 1
Nov 2
Nov 3
Nov 4
Nov 5
Nov 6
Nov 7
Nov 8
Nov 9
Nov 10
Nov 11
Nov 12
Nov 13
Nov 14
Nov 15
Nov 16
Nov 17
Nov 18
Nov 19