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

Date	24 October 2022
Team ID	PNT2022TMID21204
Project Name	Retail Store Stock Inventory Analysis
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	Aishwarya, Shalini Priya
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Aishwarya, Shalini Priya
Sprint-2	Registartion through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Aishwarya, Shalini Priya
Sprint-1	Registartion through gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Aishwarya, Shalini Priya
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Aishwarya, Shalini Priya
Sprint-2	Dashboard	USN-6	As a user, I can view the stocks in the dashboard.	5	High	Amudha, Ragavi Preethi
Sprint-2	View the statictics	USN-7	As a user, I must be able to view the statistics suggestion.	3	High	Amudha, Ragavi Preethi
Sprint-3	Viewing the information	USN-8	As a user, A simple diagram consisting of all the information must be visible.	2	Low	Amudha, Ragavi Preethi
Sprint-2	Updating stock	USN-9	As a user, I must be able to edit the number of stocks.	2	Low	Amudha,

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Ragavi Preethi
Sprint-3	Confirmation before deleting	USN-10	As a user, I must have double confirmation before deleting all the data.	3	Medium	Amudha, Ragavi Preethi
Sprint-4	Notifications	USN-11	As a user, I must get notification about the stock that is rapidly depleting.	5	High	Amudha, Ragavi Preethi
Sprint-3	Stock Prediction	USN-12	As a user, I can predict out of stock and less stock for a product.	5	Medium	Aishwarya, Ragavi Preethi
Sprint-4	Invoice generation	USN-13	As a user, I can generate invoice calculating taxes. discount and calculate credits.	5	High	Shalini Priya, Amudha
Sprint-4	Discount System	USN-14	As u user, I can provide discount based on the credit points.	3	Medium	Amudha, Ragvi Preethi,Shalini Priya
Sprint-3	Report generation	USN-15	As a user, I can generate reports based on the product sales.	5	High	Aishwarya, Amudha, Ragavi Preethi

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	6	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022
Sprint-2	12	6 Days	31 Oct 2022	05 Nov 2022	12	05 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022	15	12 Nov 2022
Sprint-4	13	6 Days	14 Nov 2022	19 Nov 2022	13	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)

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

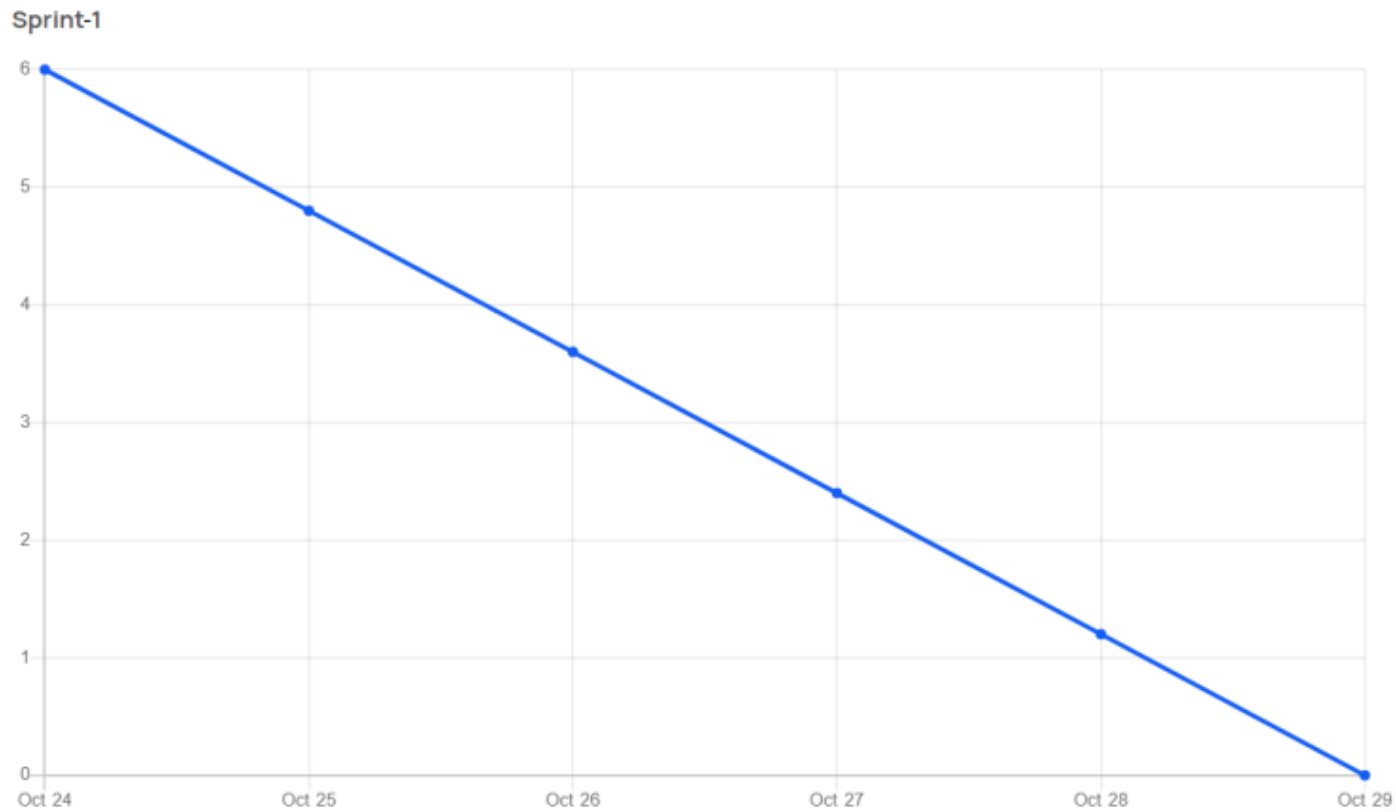| Sprint	Total Story Points	Duration	Average velocity
Sprint-1	6	6 Days	6/6 = 1
Sprint-2	12	6 Days	12/6 = 2
Sprint-3	15	6 Days	15/6 = 2.5
Sprint-4	13	6 Days	13/6 = 2.167
Total	46	24 Days	46/24 = 1.92

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.

Estimated Effort:

Sprint 1:

Sprint-1
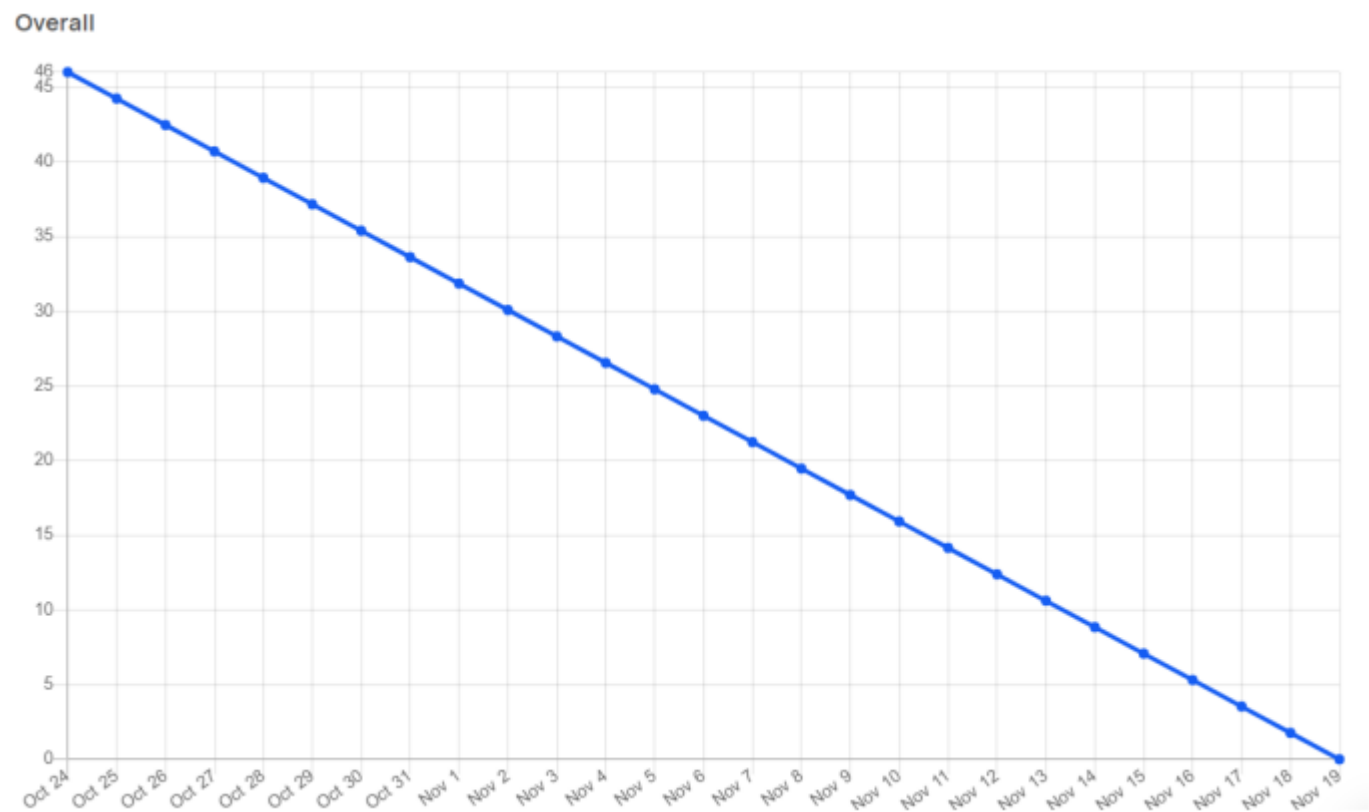
Sprint 2:

Sprint-2
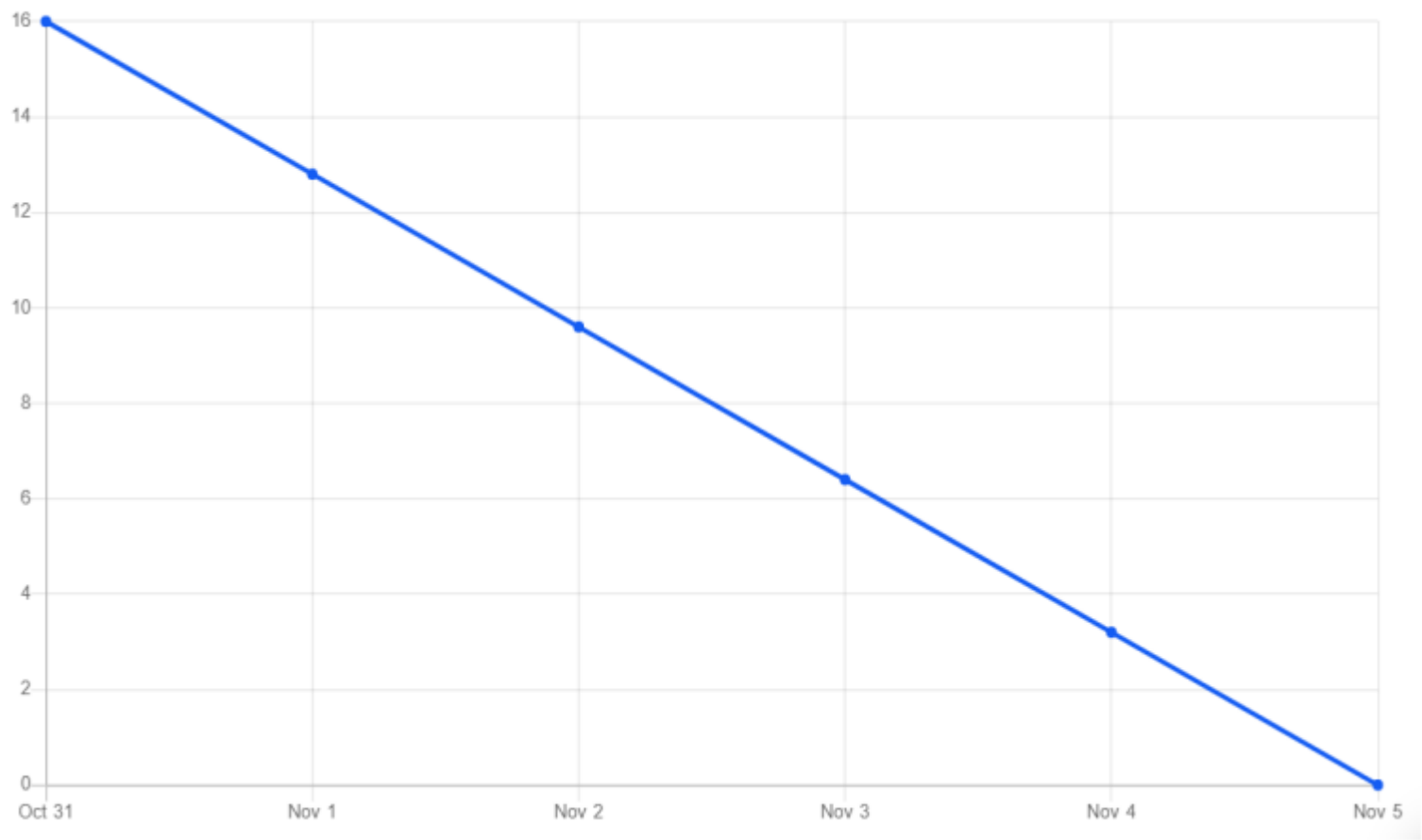
Sprint 3:

Sprint-3
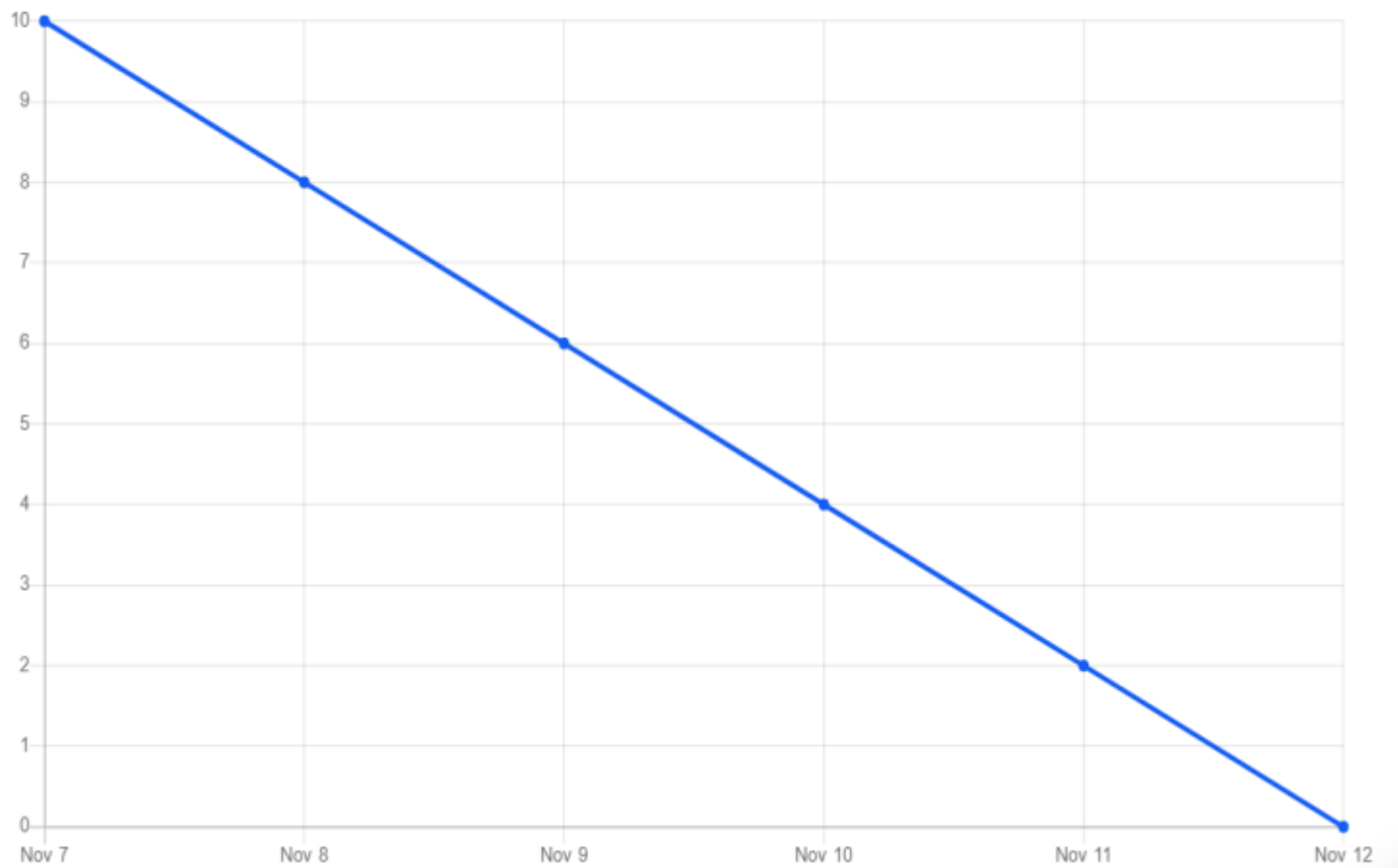
Sprint 4:

Sprint-4
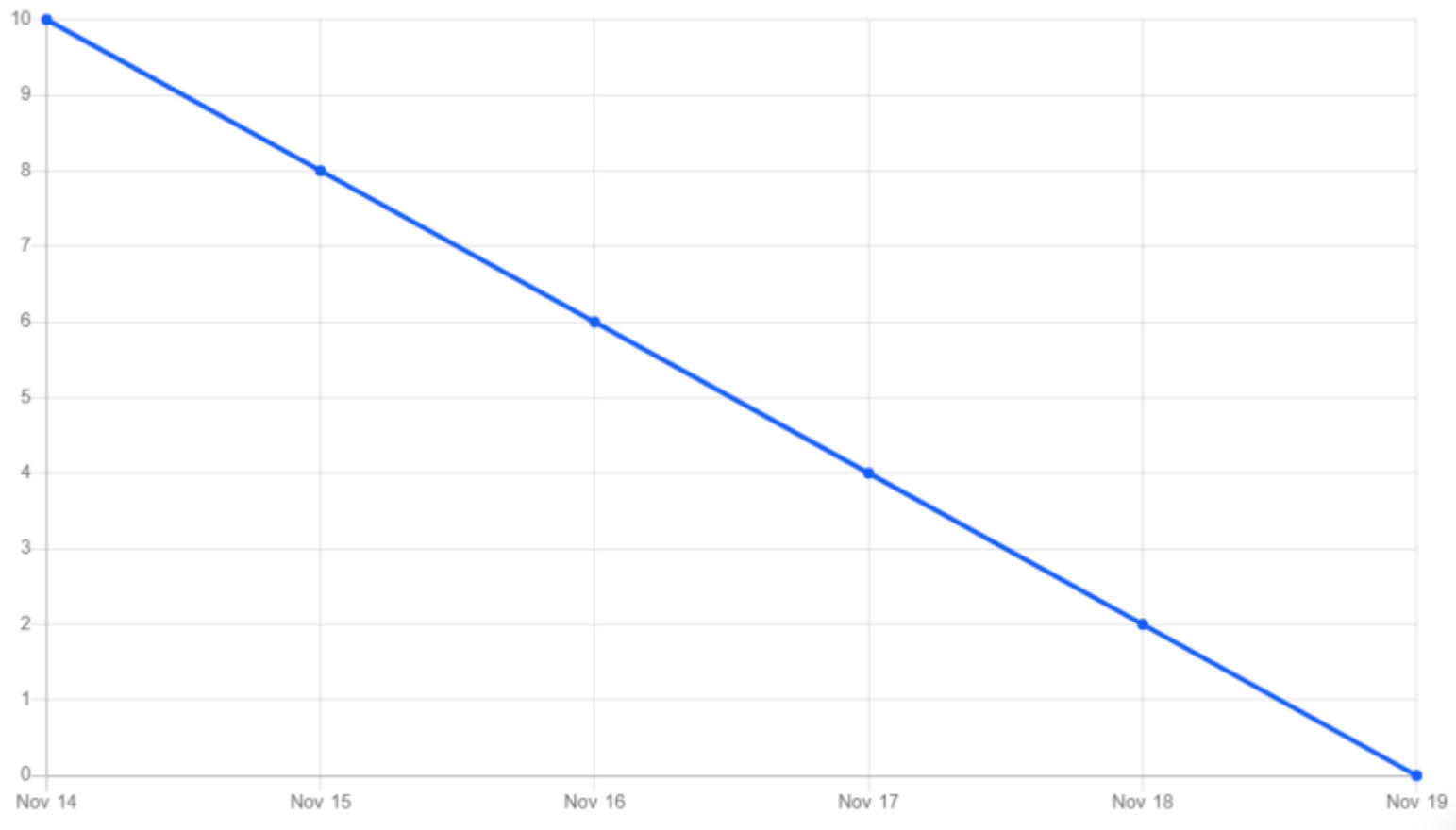
Overall burndown chart:

Overall

Project Planning Tool:

Milestones and Activities:

MILESTONES	ACTIVITES
Login	• Login into Dashboard
Dashboard Activties	• View Stocks • Perform Predictions • Search Products • View simplified information
Updating stocks	• Add Products • Delete Products
Visualisation stocks	• Report generation • Out of stock prediction • In stock prediction
Discount prediction	• Discounts based on credits
Notifications System	• Notification upon rapid depletion • Notification upon login
Orders report	• Reorder Stock • Invoice generation