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

Date	10 NOVEMBER 2022
Team ID	PNT2022TMID45498
Project Name	Retail Store Stock Inventory Analytics
Maximum Marks	8 marks

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, and password, and confirming my password.	2	High	KATHIRAVAN, RAGUL
Sprint-1	Confirmation	USN-2	As a user, I will receive a confirmation email once I have registered for the application	1	High	KATHIRAVAN, RAGUL
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	ENIYAVAN, SANTHIYA
Sprint-1	Login	USN-5	As a user, I can log into the application by entering my email & password	1	High	KATHIRAVAN, RAGUL
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	KATHIRAVAN
Sprint-2	View list of stocks	USN-7	As a user, I can view the list of categorized products and their details	4	High	KATHIRAVAN
Sprint-2	Insights generation	USN-8	As a user, I can able to collect more insights From the dashboard.	2	Medium	SANTHIYA, RAGUL

Sprint-3	Report generation	USN-9	As a user, I can generate reports based on product sales	5	High	KATHIRAVAN ENIYAVAN
Sprint-3	Stock Prediction	USN-10	As a user, I can predict out-of-stock and less stock for a product	5	High	KATHIRAVAN ENIYAVAN
Sprint-4	Notification system	USN-11	As a user, I can view notifications for expired and out of stock products	4	High	SANTHIYA, RAGUL
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	KATHIRAVAN ENIYAVAN
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	SANTHIYA, RAGUL
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	KATHIRAVAN ENIYAVAN
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	KATHIRAVAN ENIYAVAN

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	25 Oct 2022	29 Oct 2022	6	30 Oct 2022
Sprint-2	16	6 Days	31 Oct 2022	05 Nov 2022	16	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	14	6 Days	14 Nov 2022	20 Nov 2022	14	20 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	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

Burndown Chart:

A burndown 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.
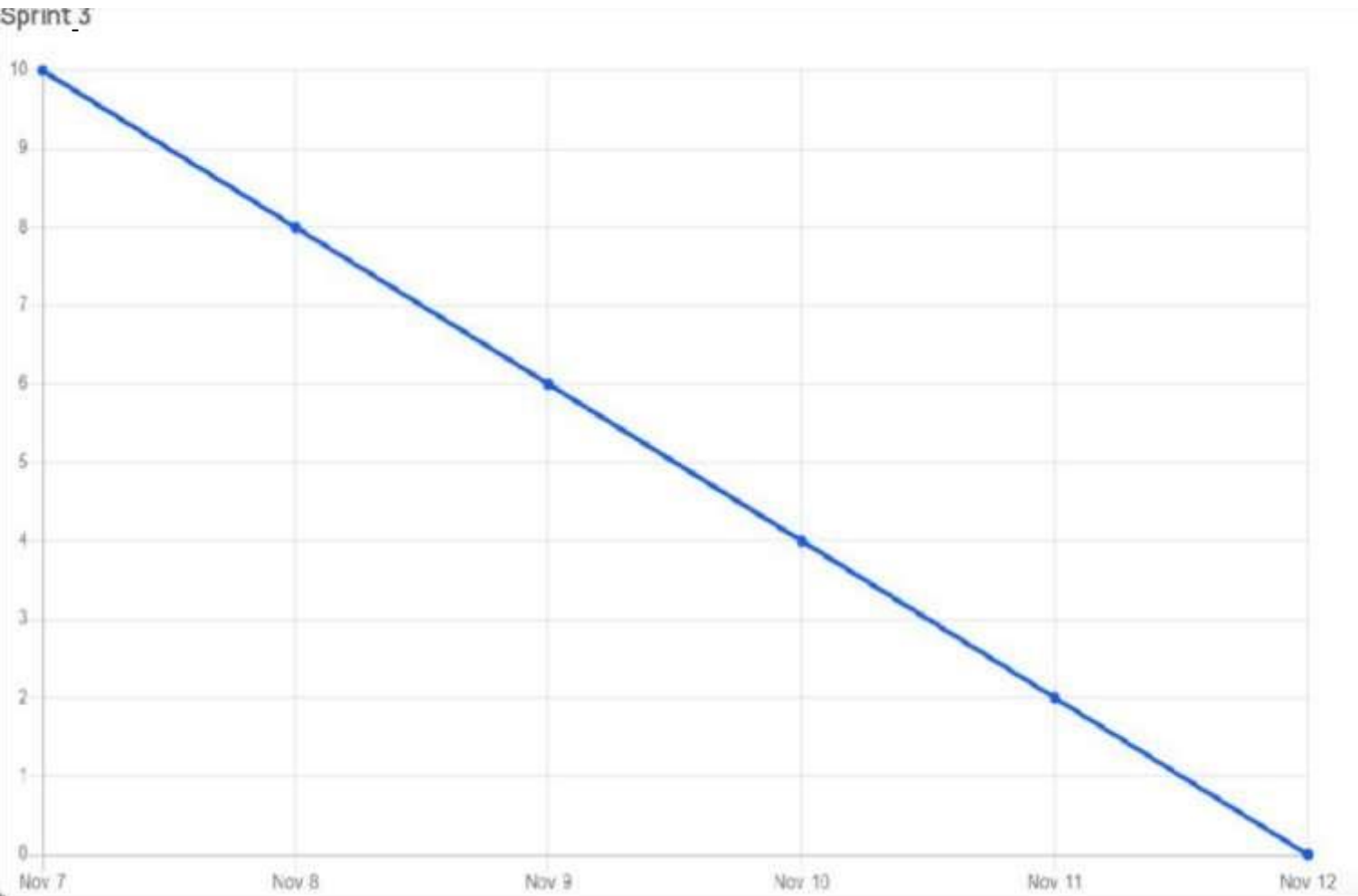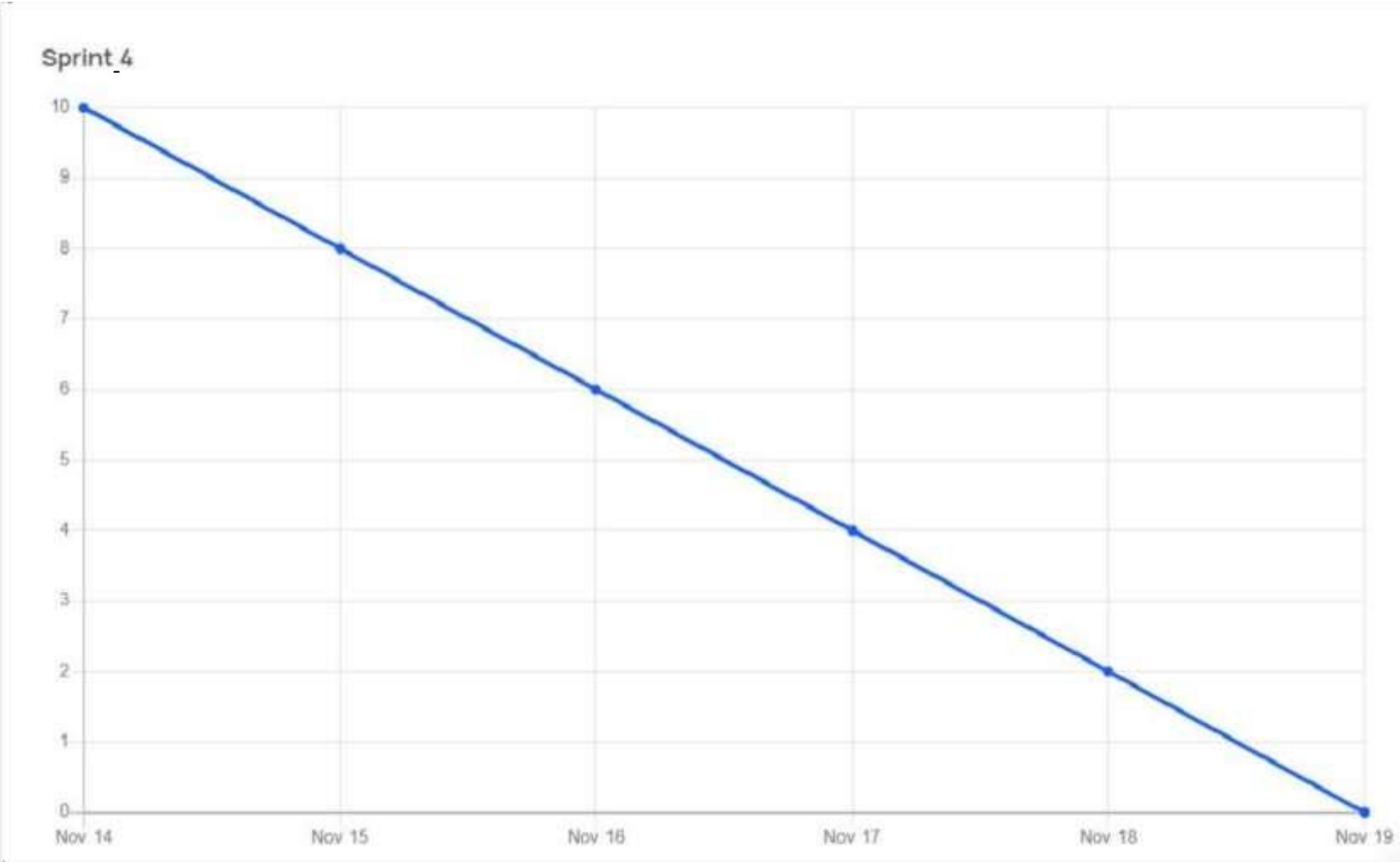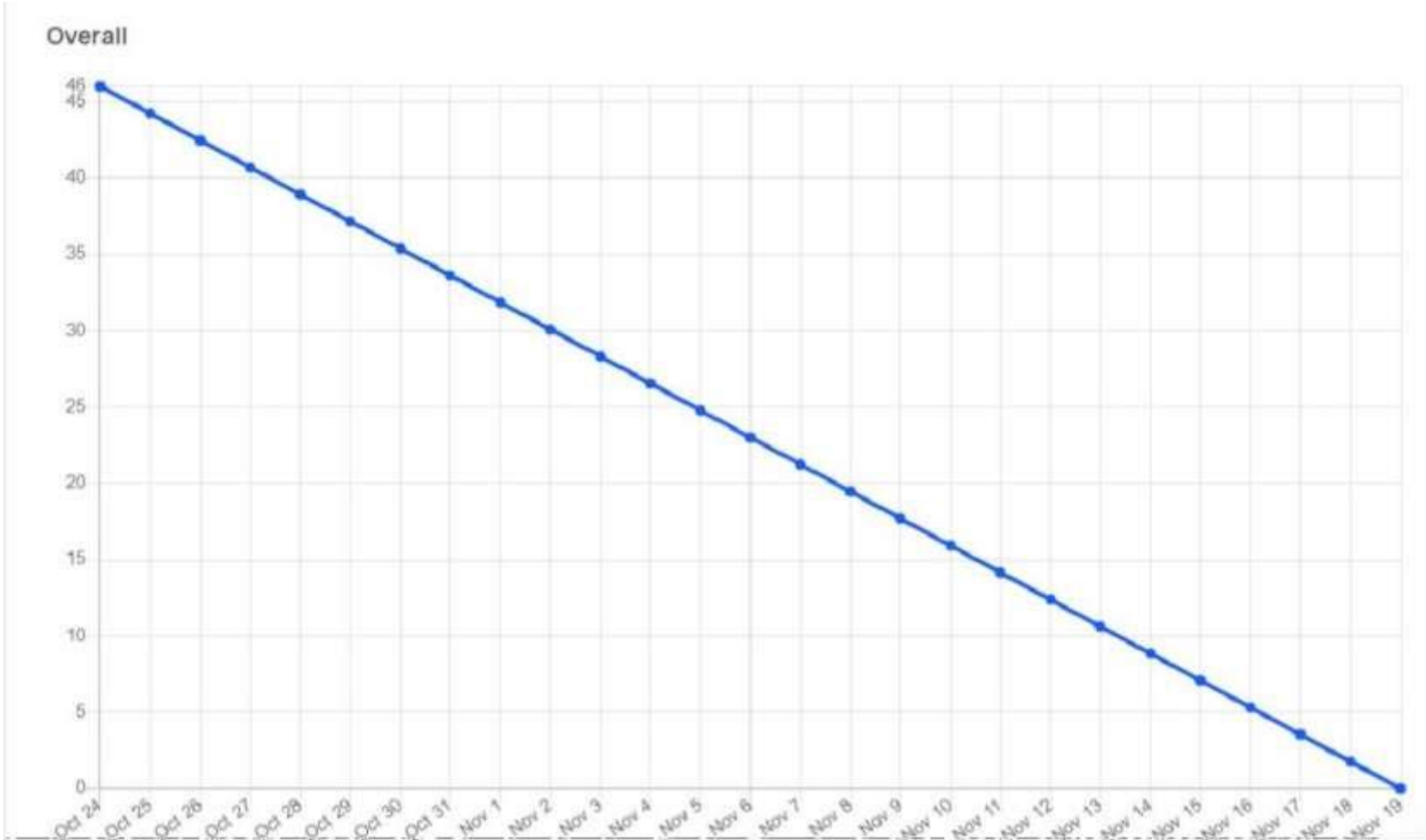
Estimated Effort:

Sprint - 1:
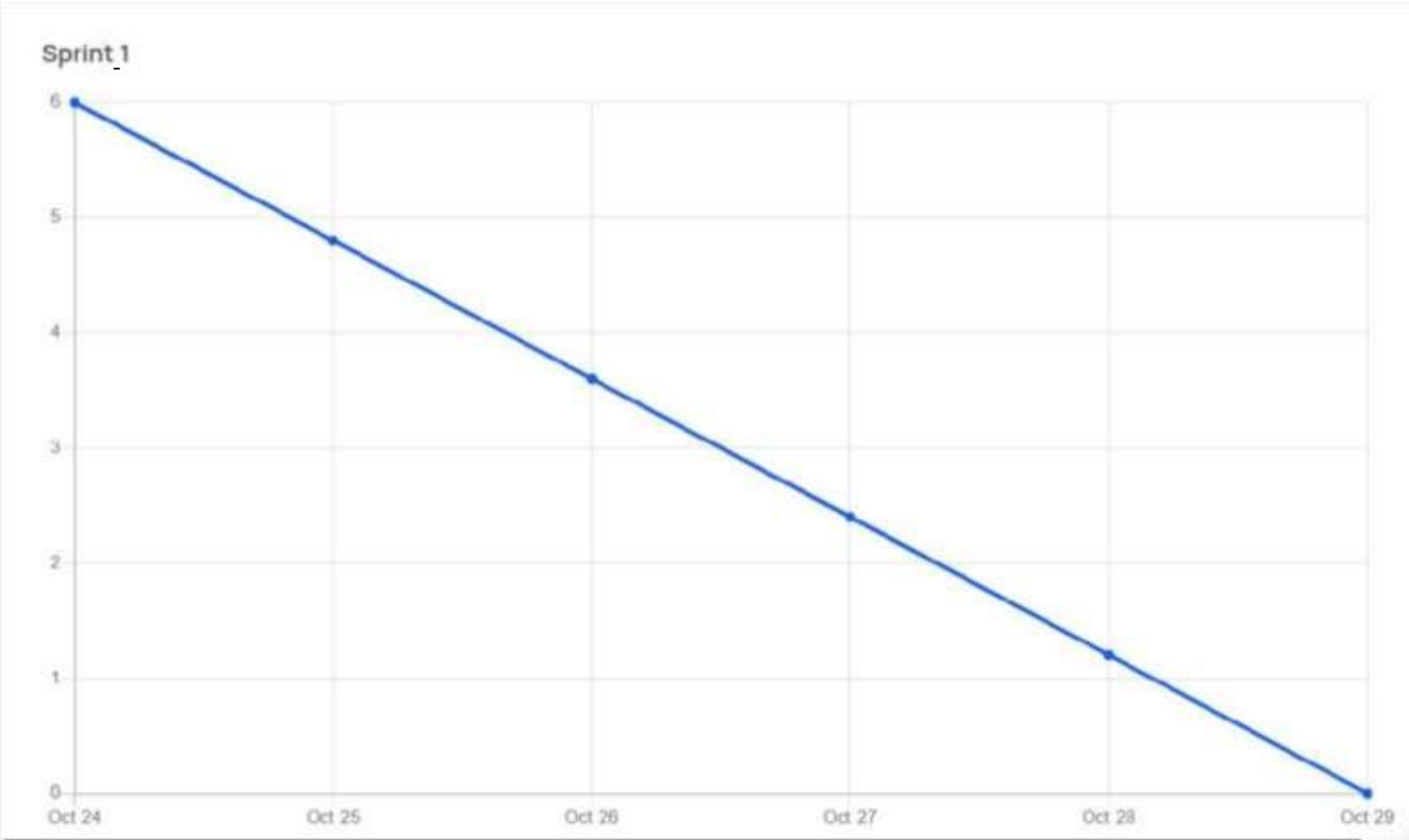
Sprint 1
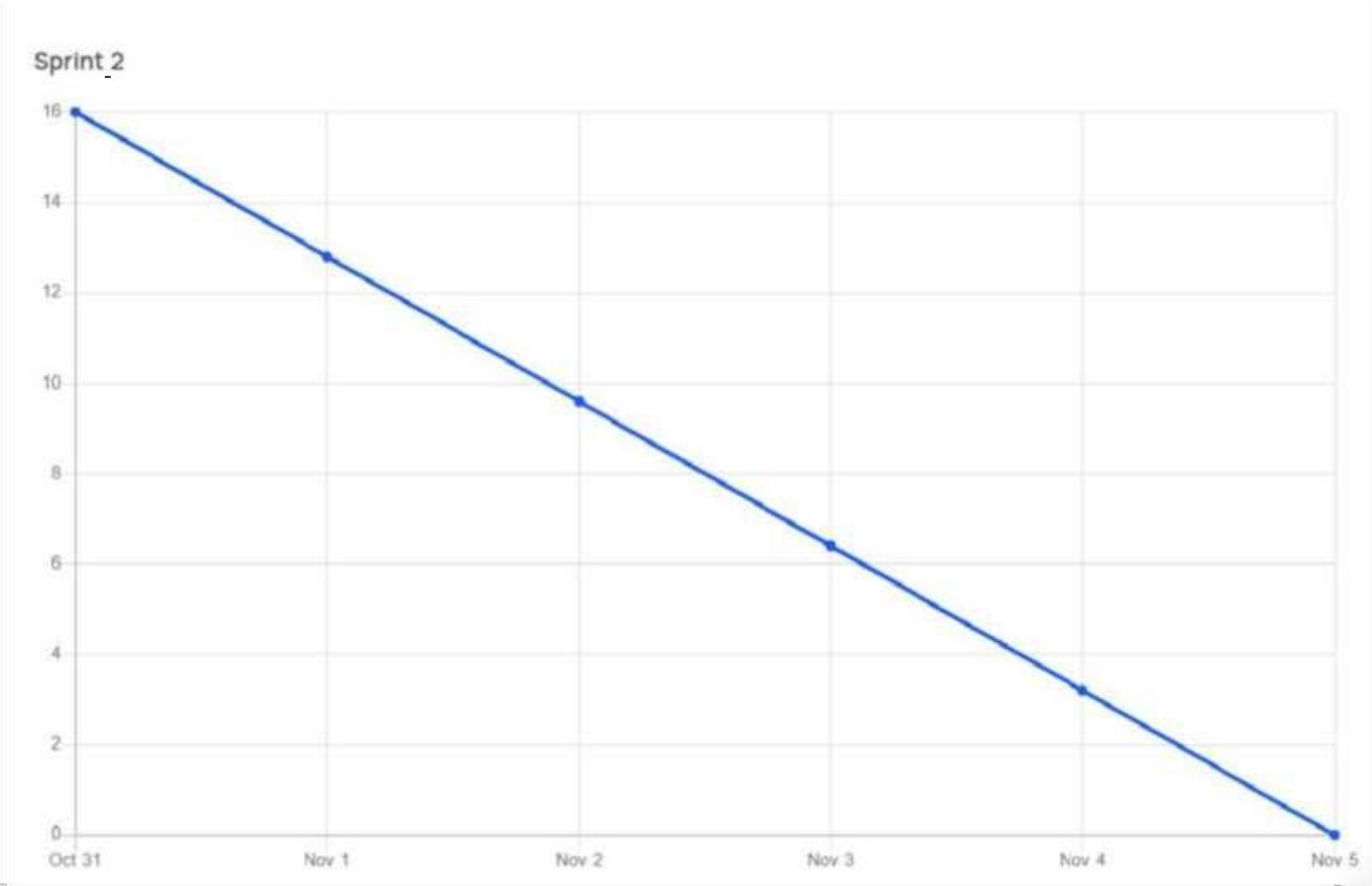
Sprint - 2:

Sprint 2

Sprint - 3:

Sprint - 4:

Overall burndown chart:

Overall

Milestones and Activities:

MILESTONES	ACTIVITIES
Login	➢ Login into Dashboard
Dashboard	➢ Record available Stocks ➢ Perform Predictions ➢ Search Products
Visualization	➢ Report generation ➢ Out of stock prediction ➢ In stock prediction
Updating Stocks	➢ View Products ➢ Add Products ➢ Delete Products
Discount system	➢ Discounts based on credits ➢ Invoice generation
Orders	➢ Reorder Stock
Notification system	➢ Notification upon critical stock