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

Date	22nd October 2022
Team ID	PNT2022TMID09248
Project Title	Retail Store Stock Inventory Analytics
Maximum Marks	8

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Login	USN-1	As a Retailer, I can log into the application by entering email & password (provided by developer)	1	High	Adarsh Akash Ganeshwar
Sprint-2	Add Product	USN-2	As a Retailer, I will be able to add the product by entering their details(product name,price and category).	8	High	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-2	Update product	USN-3	As a Retailer, I can able to update the product details by entering the product id(product idKnown by clicking view product button,Generated by the system while adding)	1	Low	Chandraprakash Reddy Adarsh Akash Ganeshwar

Sprint-2	Delete product	USN-4	As a Retailer, I can able to delete the product as it is no longer needed by entering the product id(product id- Known by clicking view product button,Generated by the system while adding)	1	Low	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-2	View products	USN-5	As a Retailer I am able to view the list of products by clicking the view product button in the stocks tab.	3	High	Chandraprakash Reddy Adarsh Akash
Sprint-1	Add category	USN-6	As a Retailer I am able to add category by entering category details (Category name)	5	High	Chandraprakash Reddy Adarsh Ganeshwar
Sprint-1	Update category	USN-7	As a Retailer, I am able to update the category details by selecting the category name.	3	Low	Chandraprakash Reddy Akash Ganeshwar
Sprint-1	Delete category	USN-8	As a Retailer, I am able to delete the category details by selecting the category name as it is no longer needed	2	Low	Adarsh Akash Ganeshwar
Sprint-2	Order product	USN-9	As a Retailer I am able to order the products by entering customer details,product id and quantity.	5	High	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-2	View Summary	USN-10	As a Retailer I can view the summary of the inventory such as total orders,stock details and sales details.	13	High	Chandraprakash Reddy Adarsh Akash Ganeshwar

Sprint-2	View Bills	USN-11	As a Retailer I can view bills based on the amount,date and customer.	2	Medium	Adarsh Akash Ganeshwar
Sprint-3	Add Employee	USN-12	As a Retailer I can add employees by Entering their details.	3	High	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-3	Update Employee	USN-13	As a Retailer I can Update the employee details by entering their id.	1	Low	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-3	Delete Employee	USN-14	As a Retailer I can Delete the employee as it is no longer needed.	1	Low	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-3	View profile	USN-15	As a Retailer I can View list of employees and their details by clicking the view profile button.	2	Medium	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-3	Notify on critical stock	USN-16	As a Retailer I can view the notification (due to understock and overstock) via mobile phone and dashboard(Home page).	8	High	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-3	Add daily purchase.	USN-17	As a Retailer I can add the daily purchase by Entering the product Id and quantity.	5	High	Adarsh Akash Ganeshwar
Sprint-1	Login	USN-18	As a Employee I can log into the application by entering email & password (provided by developer)	1	High	Chandraprakash Reddy Adarsh Akash Ganeshwar

Sprint-4	Order product	USN-19	As an Employee I am able to order the products by entering customer details,product id and quantity	5	High	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-4	View summary	USN-20	As an Employee I can view the summary of the inventory such as total orders,stock details and sales details	8	High	Chandraprakash Reddy Adarsh Akash Ganeshwar
Sprint-4	View Bills	USN-21	As an Employee I can view bills based on the amount,date and customer	2	Medium	Chandraprakash Reddy Adarsh Ganeshwar
Sprint-4	Add daily purchase	USN-22	As an Employee I can add the daily purchase by Entering the product Id and quantity	3	High	Chandraprakash Reddy Adarsh Akash

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	12	6 Days	24 Oct 2022	29 Oct 2022	12	29 Oct 2022
Sprint-2	33	6 Days	31 Oct 2022	05 Nov 2022	33	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	18	6 Days	14 Nov 2022	19 Nov 2022	18	19 Nov 2022

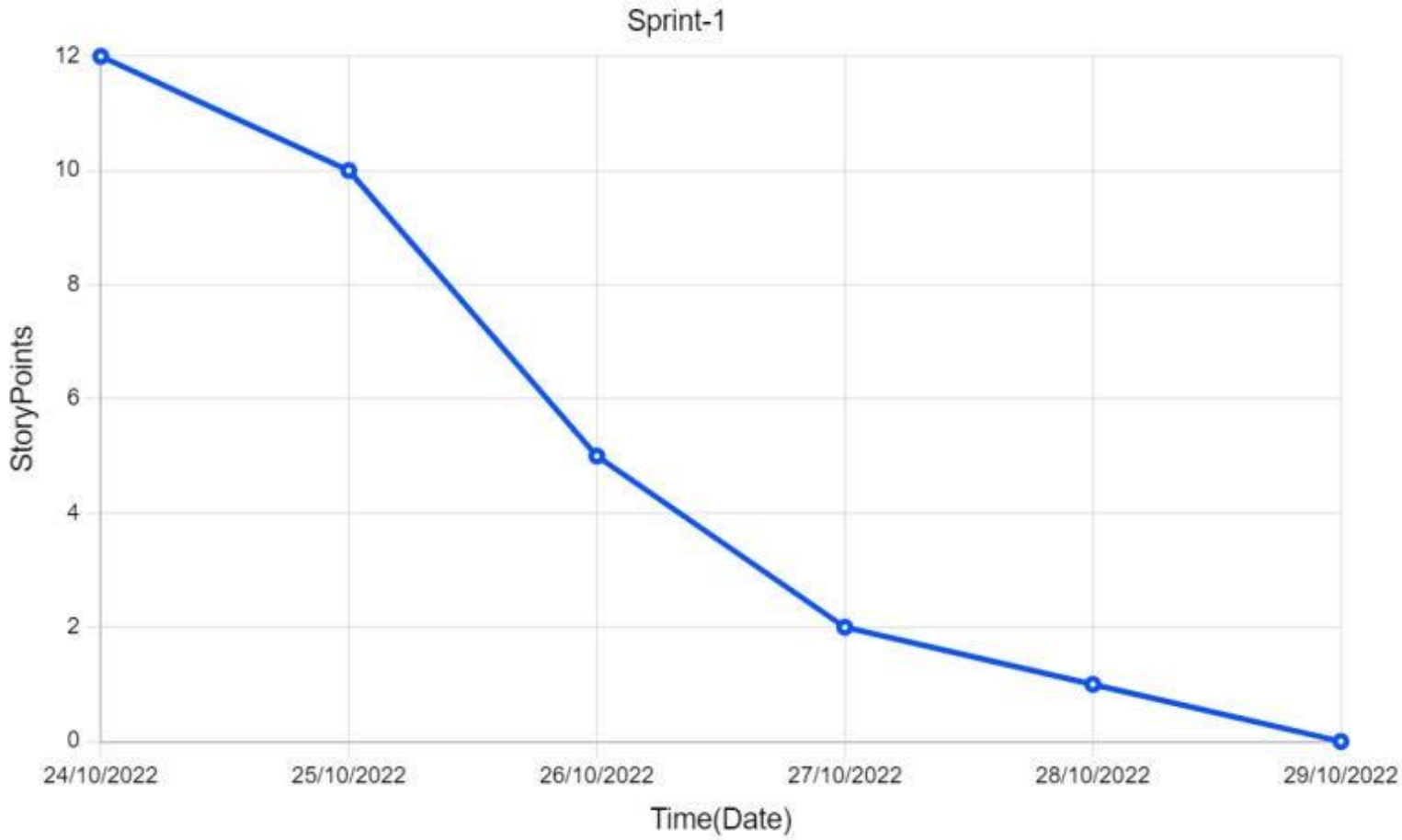
Velocity: Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

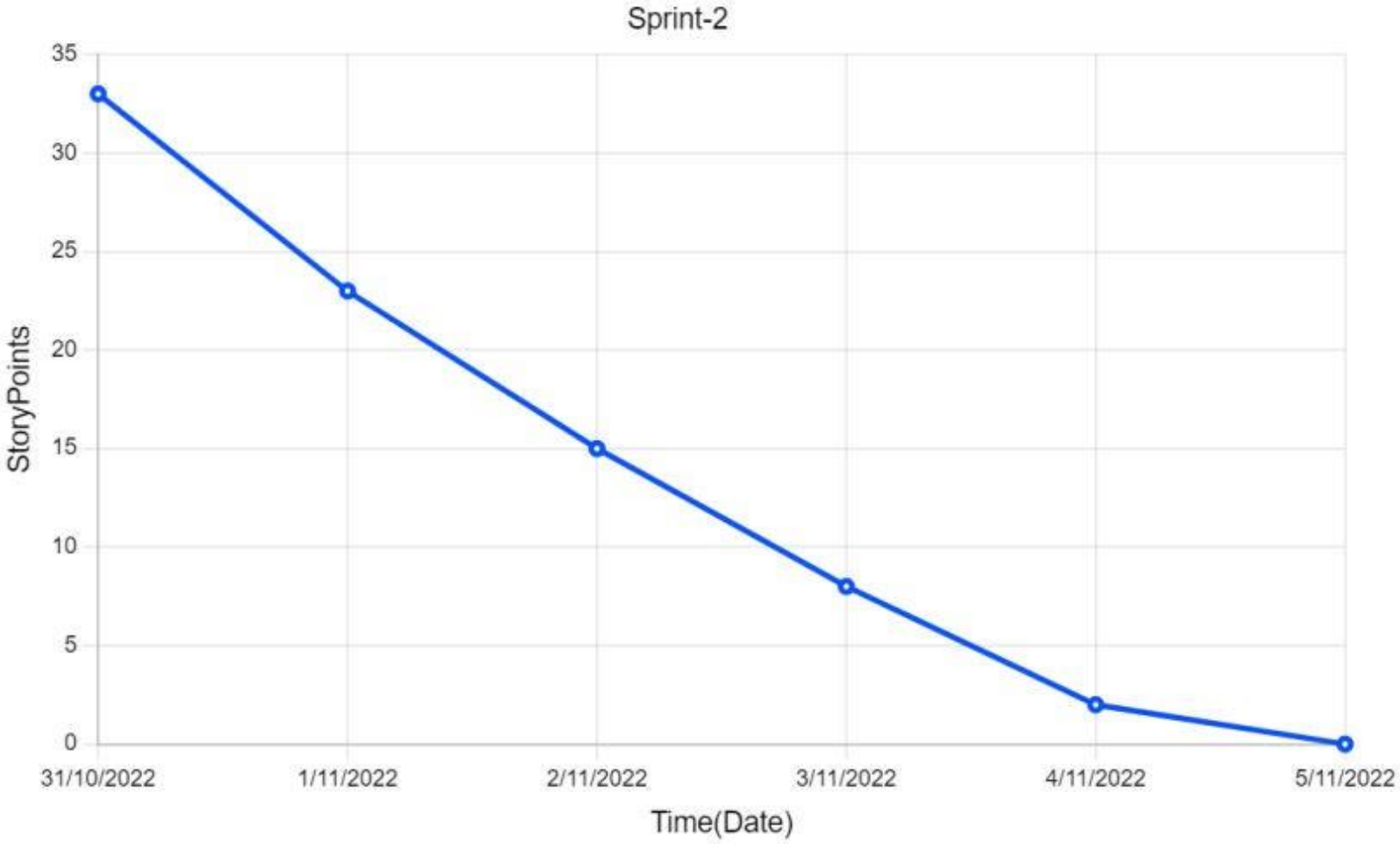
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

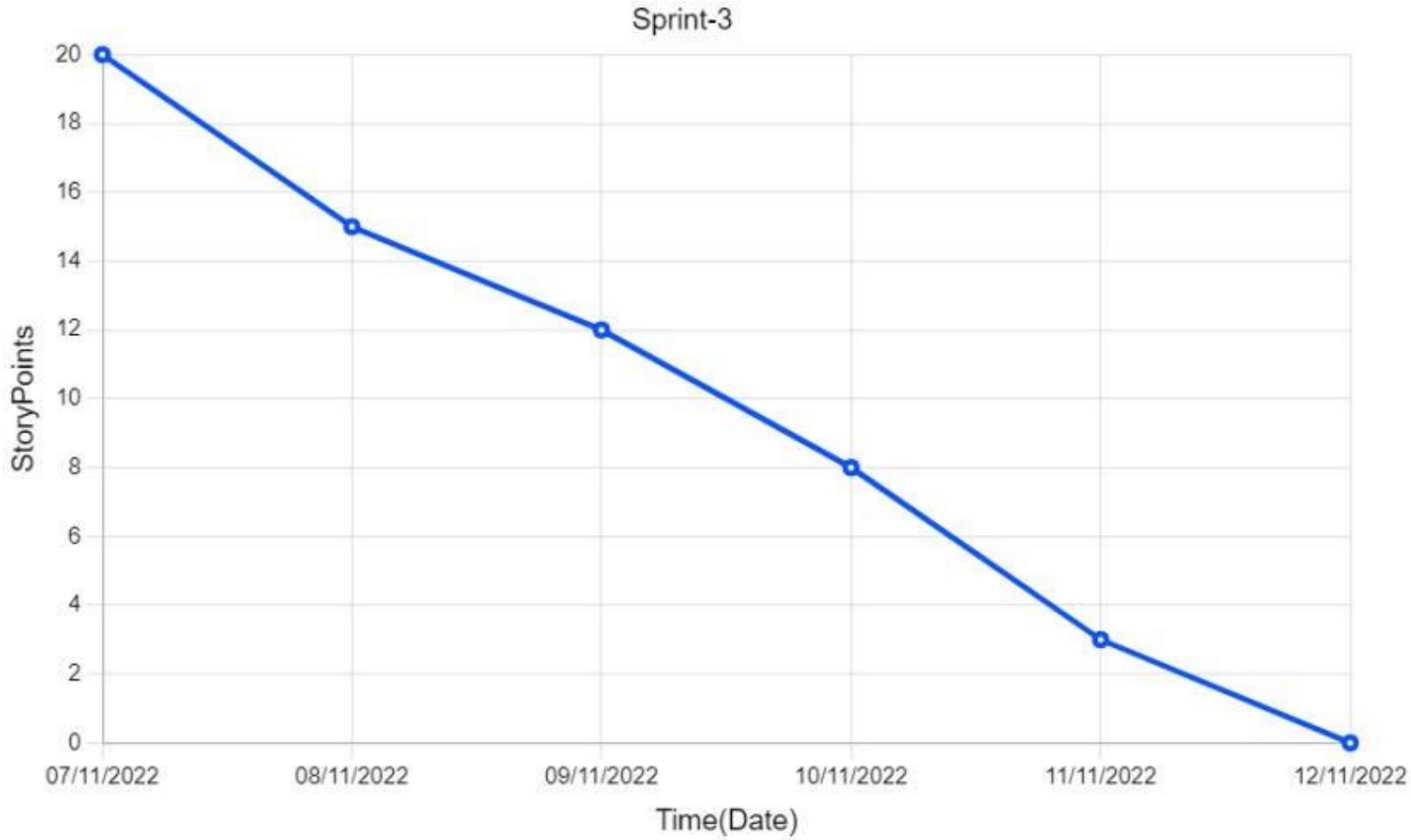
Sprint	Total Story Points	Duration	Average velocity
Sprint-1	12	6 Days	12/6 = 2
Sprint-2	33	6 Days	33/6 = 5.5
Sprint-3	20	6 Days	20/6 = 3.3
Sprint-4	18	6 Days	18/6 = 3
Over All	83	24 Days	83/24 = 3.45

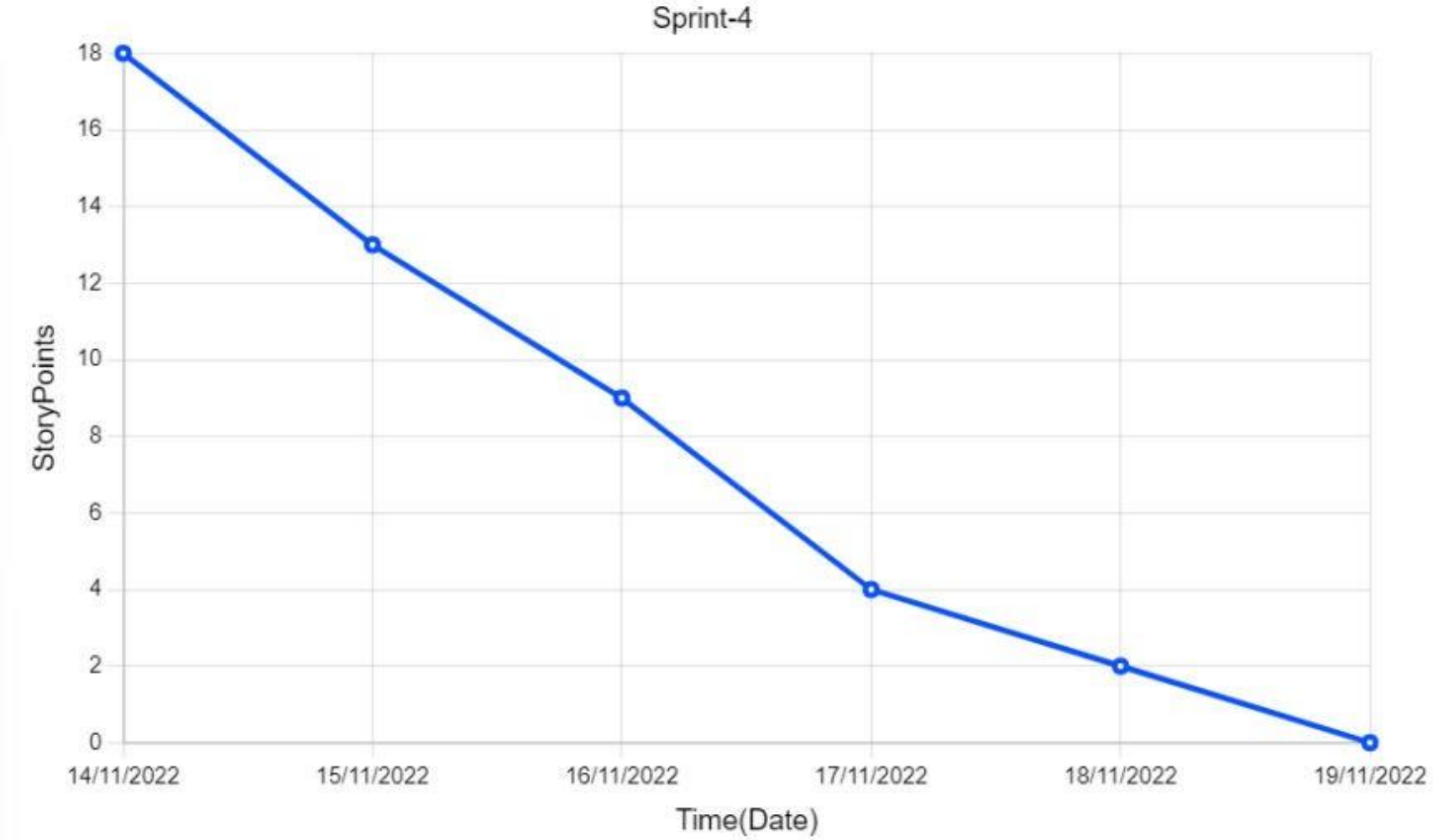
Burndown Chart:

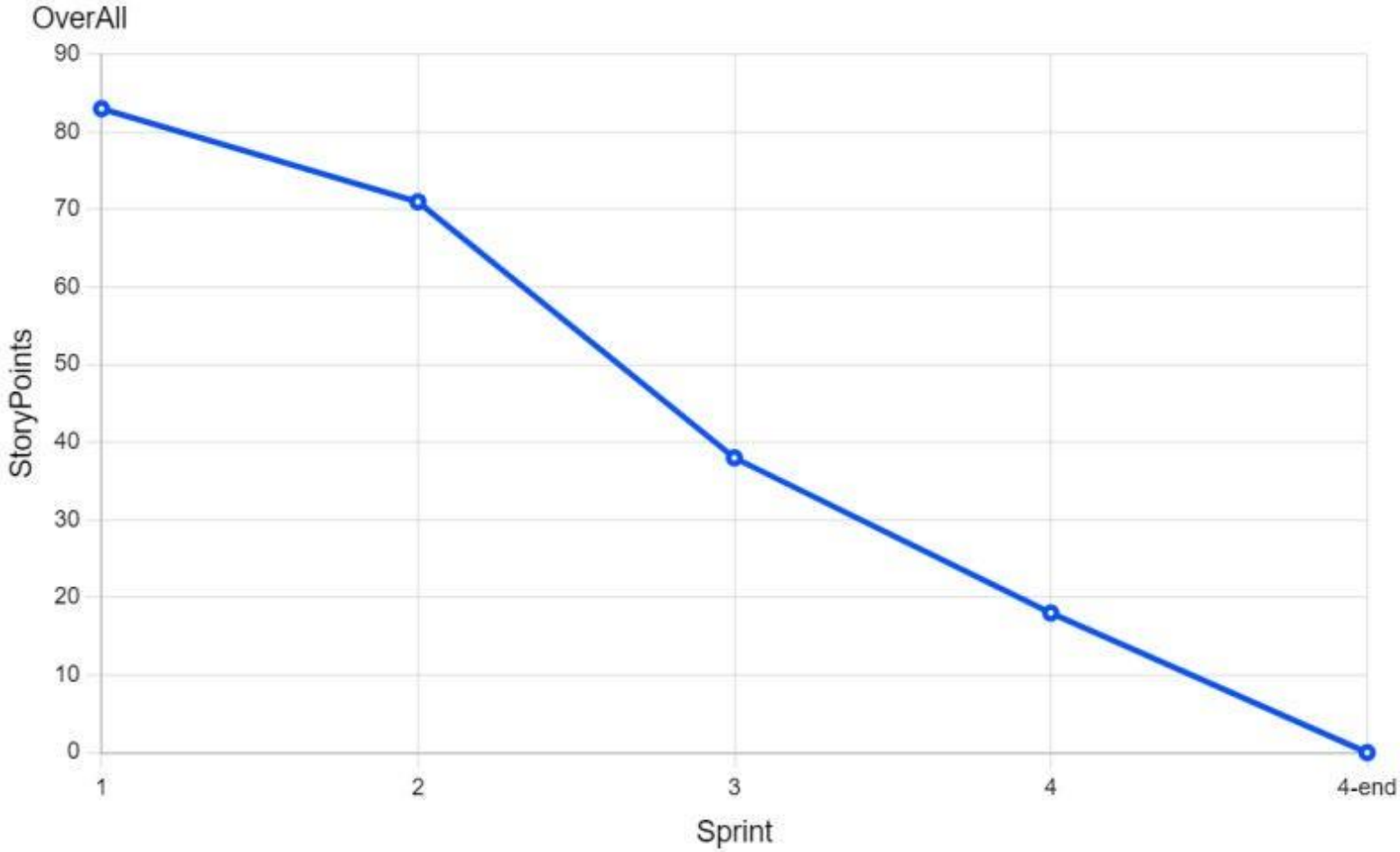
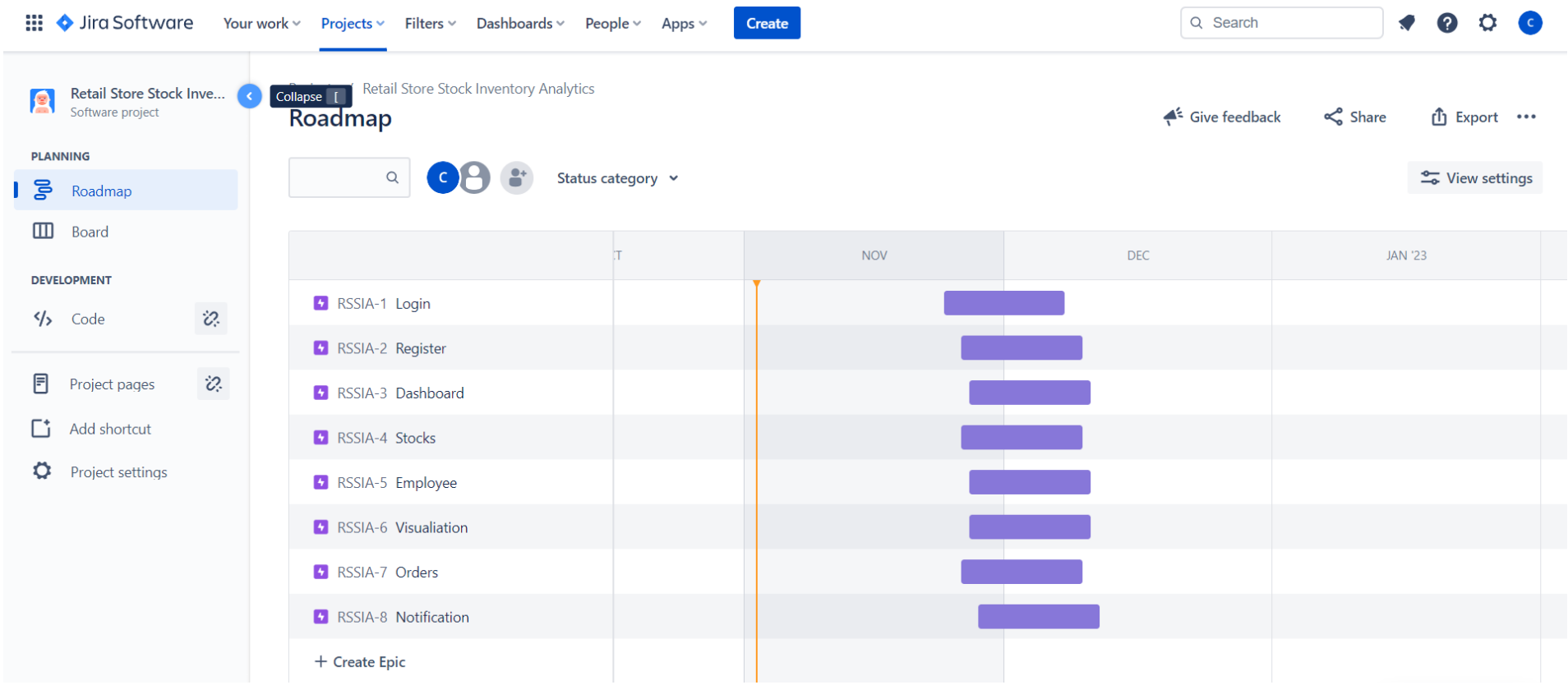
A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.


Sprint-1
12
10
8
6
4
2
0
StoryPoints
24/10/2022
25/10/2022
26/10/2022
27/10/2022
28/10/2022
29/10/2022
Time(Date)


Sprint-2
35
30
25
20
15
10
5
0
StoryPoints
31/10/2022
1/11/2022
2/11/2022
3/11/2022
4/11/2022
5/11/2022
Time(Date)


Sprint-3
StoryPoints
20
18
16
14
12
10
8
6
4
2
0
07/11/2022
08/11/2022
09/11/2022
10/11/2022
11/11/2022
12/11/2022
Time(Date)


Sprint-4
StoryPoints
18
16
14
12
10
8
6
4
2
0
14/11/2022
15/11/2022
16/11/2022
17/11/2022
18/11/2022
19/11/2022
Time(Date)


OverAll
90
80
70
60
50
40
30
20
10
0
StoryPoints
1
2
3
4
4-end
Sprint

Planning Tool: