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

Team ID	PNT2022TMID50558
Project Name	Project - Retail Store Stock Inventory 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
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	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S

Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Stock Prediction	USN-10	As a user I can predict out of stock and less stock for a product	5	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Murugan. A Lakshmanan. M Karthi vignesh. R Karthikeyan.K.S

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	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	19 Nov 2022	14	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	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 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:
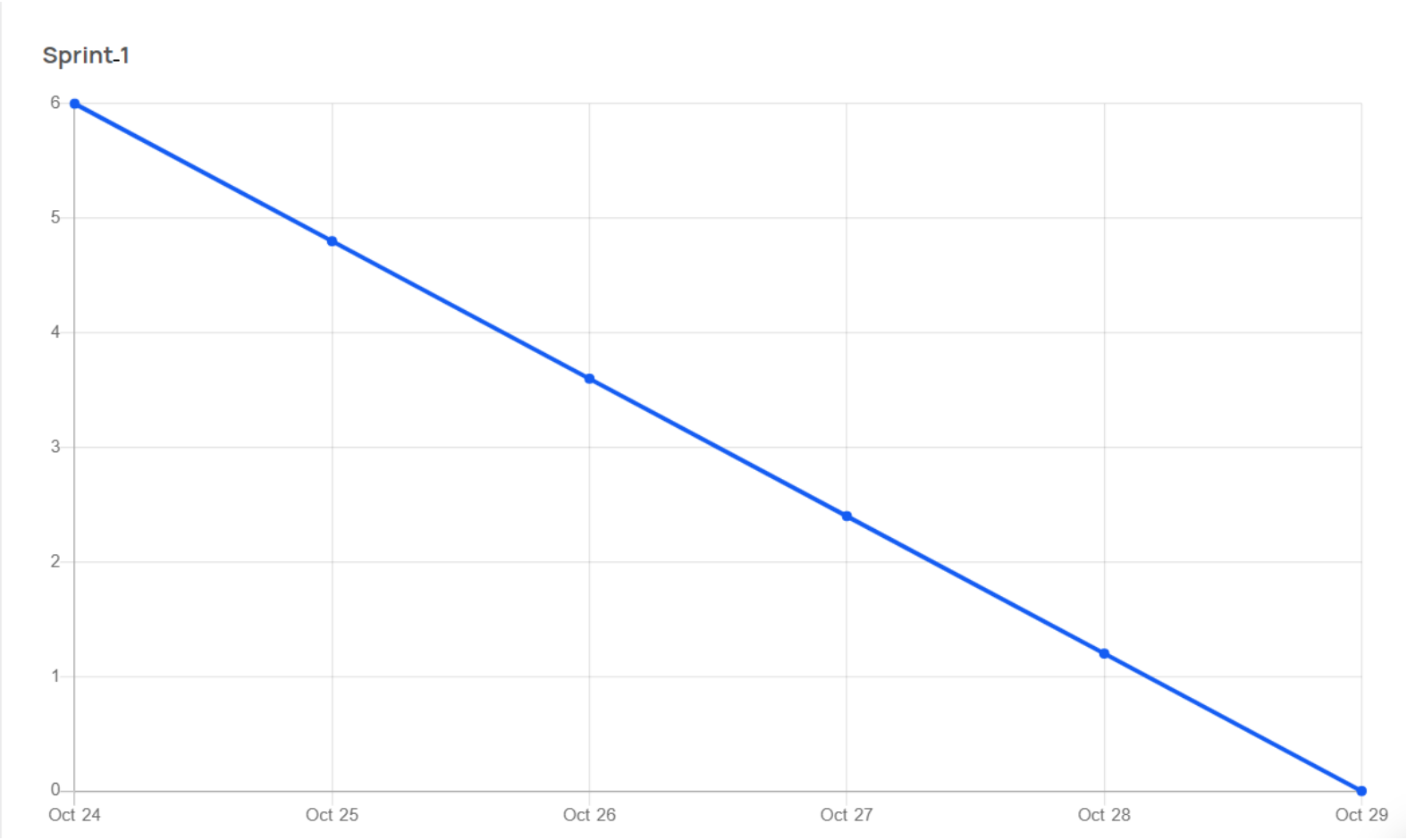
Sprint_1

Sprint - 2:

Sprint_2
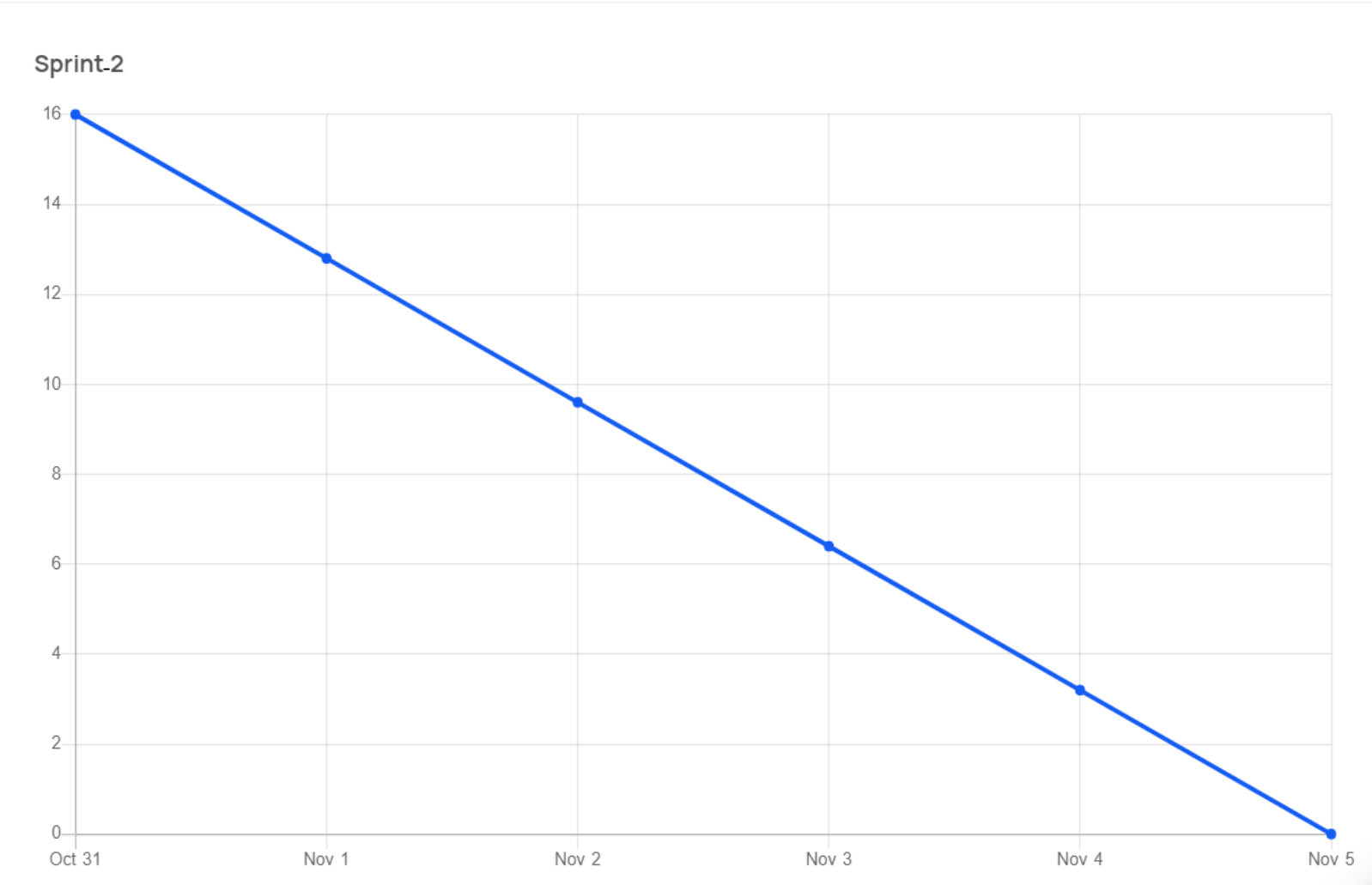
Sprint - 3:
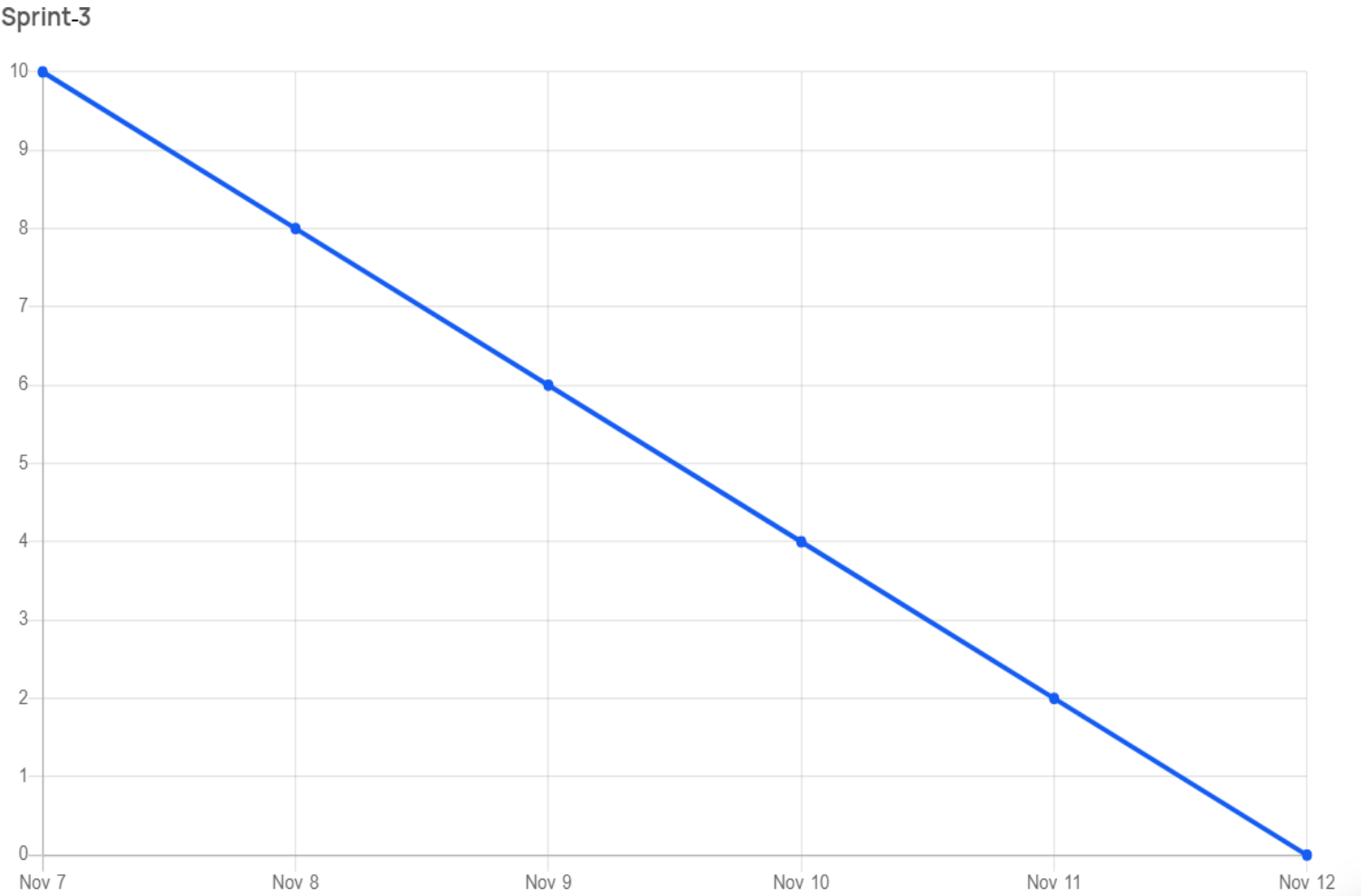
Sprint-3

Sprint - 4:

Sprint-4
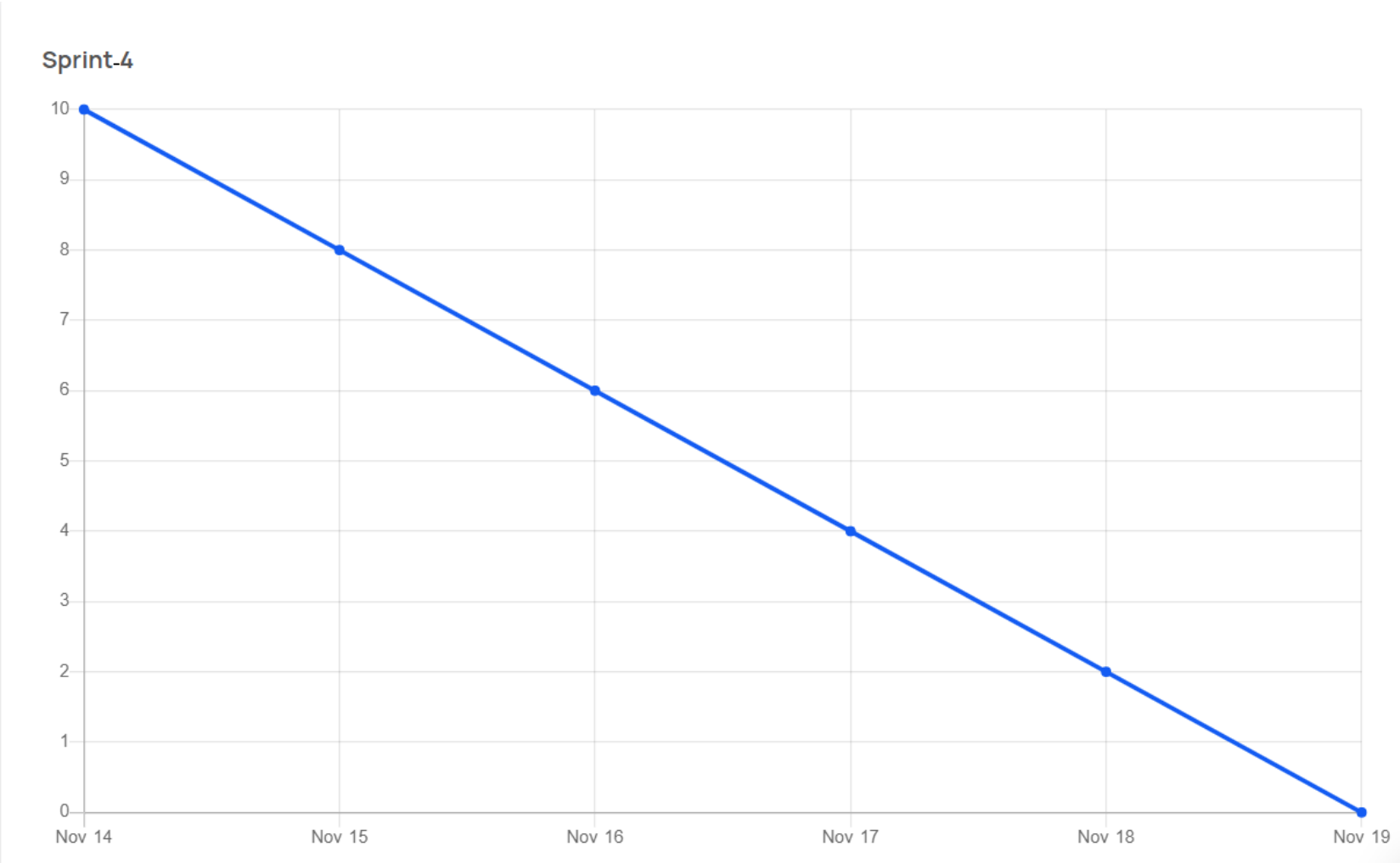
Overall burndown chart:

Overall
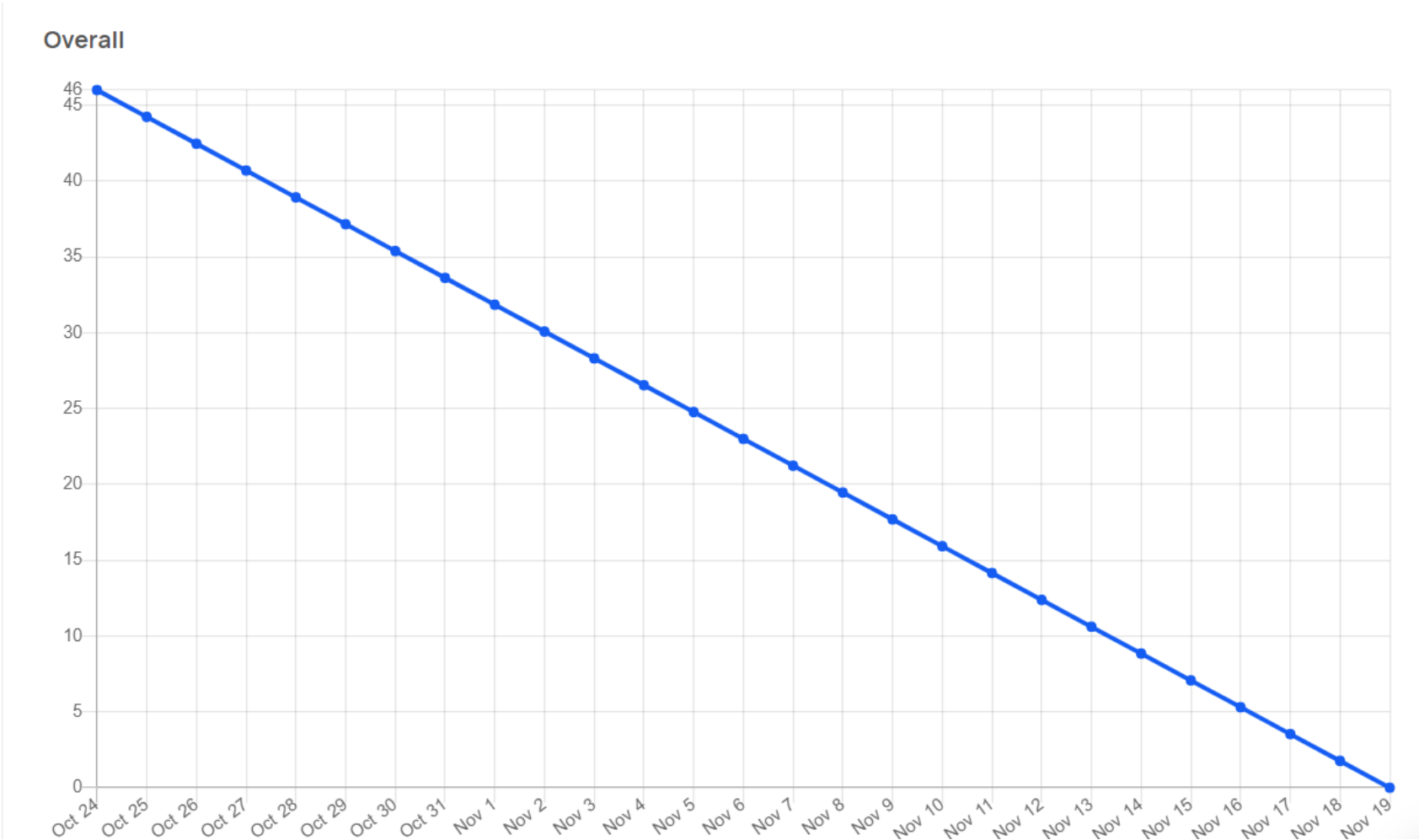
Project Planning Tool:

Your work ˅   Projects ˅   Filters ˅   Dashboards ˅   People ˅   Apps ˅   **Create**

Search

Projects / Retail Store Stock Inventory Analytics

Roadmap

📢 Give feedback   ⤴ Share   ⬆ Export   •••

Retail Store Stock Inve...
Software project

PLANNING

🔲 Roadmap

📋 Backlog

▦ Board

DEVELOPMENT

</> Code

📄 Project pages

📑 Add shortcut

⚙ Project settings

You're in a team-managed project

Learn more

Status category ˅   ⇄ View settings

	EP	OCT	NOV	DEC
Sprints				
⌄ ⚡ RSSIA-1 Login				
⌄ ⚡ RSSIA-2 Dashboard				
⚡ RSSIA-3 Updating stocks				
⚡ RSSIA-4 Visualization				
⚡ RSSIA-5 Discount system				
⚡ RSSIA-6 Orders				
⚡ RSSIA-7 Notification System				
+ Create Epic				

Today   Weeks   **Months**   Quarters   ⤢

11:53 AM
10/25/2022

Milestones and Activities:

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