

Project Planning Phase

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

Team ID	PNT2022TMID00387
Project Name	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	I can sign up for the app as a user by providing my email address, a password, and a password confirmation.	2	High	Venkatesh.S, Ram Kumar.K.
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Venkatesh.S, Ram Kumar.K.
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Venkatesh.S, Ram Kumar.K.
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Venkatesh.S, Ram Kumar.K.
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Venkatesh.S, Ram Kumar.K.
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Venkatesh.S, Ram Kumar.K, Vaikhunth.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	Venkatesh.S, Sriram.G.
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Venkatesh.S, Sriram.G.
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Ram Kumar.K, Vaikhunth.S, Sriram.G.

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	Ram Kumar.K, Vaikhunth.S, Sriram.G.
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Ram Kumar.K, Venkatesh.S.
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Venkatesh.S, Vaikhunth.S, Sriram.G.
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Venkatesh.S, Ram Kumar.K, Vaikhunth.S, Sriram.G.
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Vaikhunth.S, Venkatesh.S.
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Ram Kumar.K, Venkatesh.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:

Consider a scenario in which the sprint will last 10 days and the team's velocity is 20. (points per sprint). Let's determine the group's average velocity (AV) for each iteration (story points per day)

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

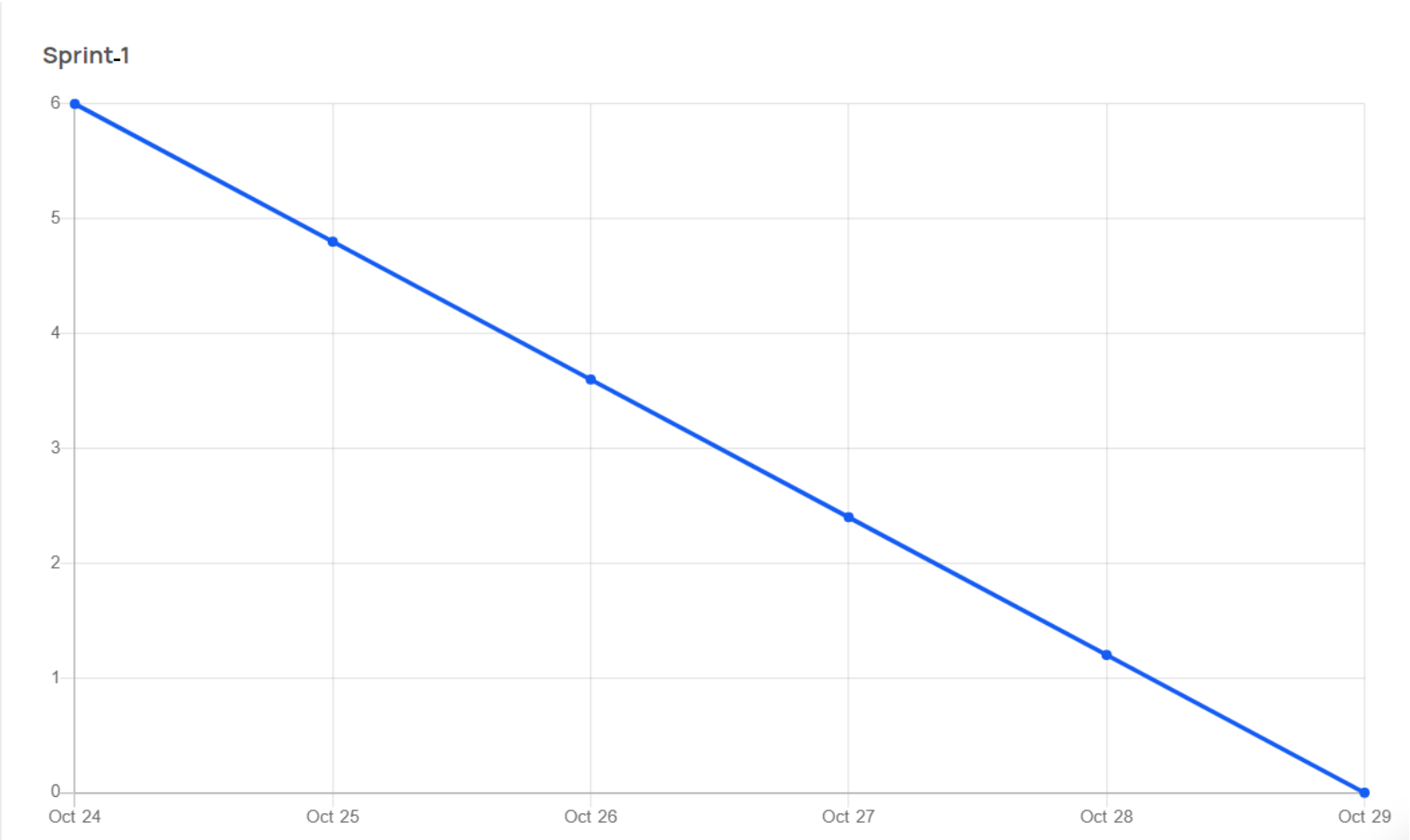
Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

Burndown Chart:

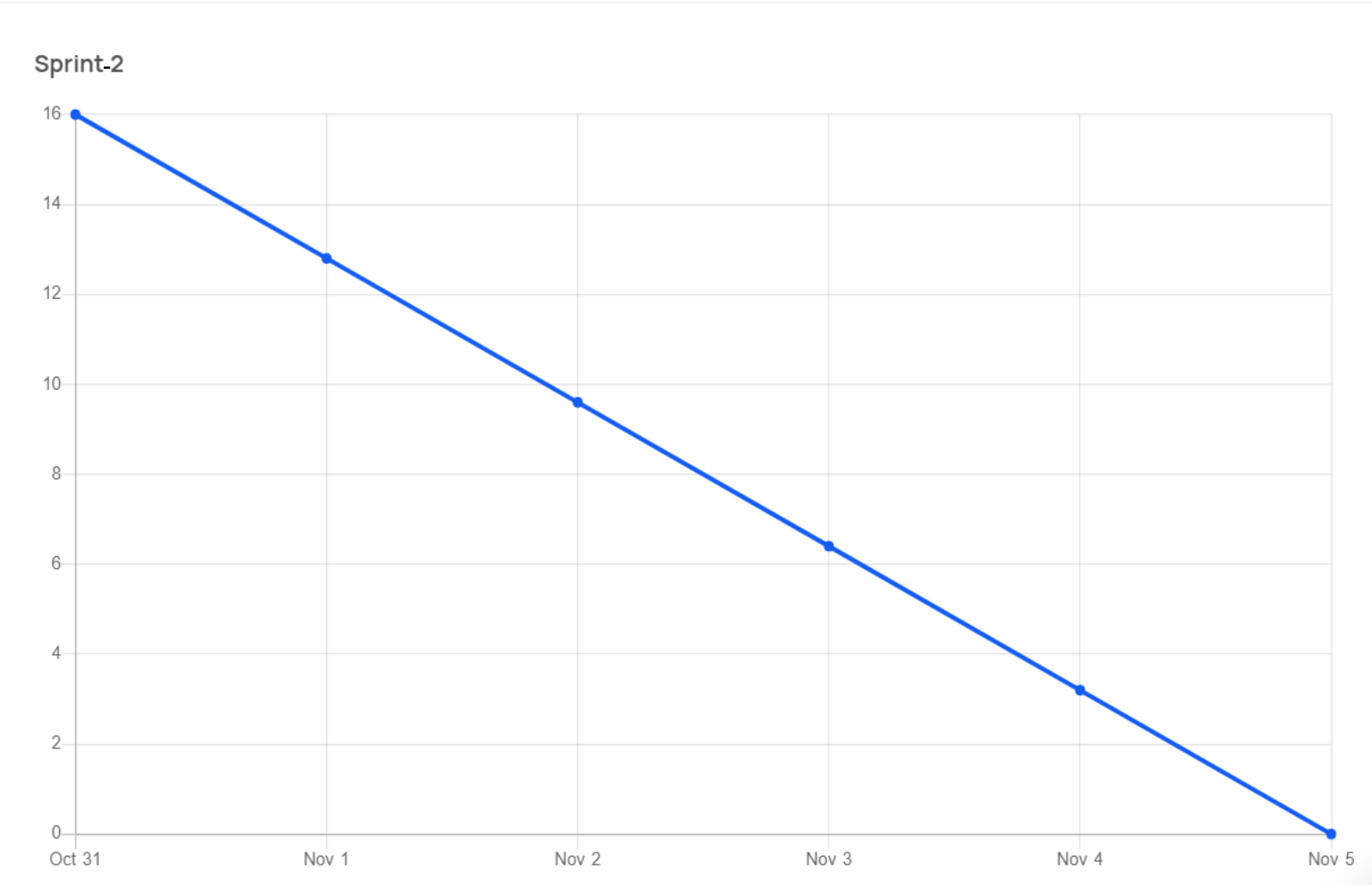
A burn down chart plots the amount of work remaining to perform against the amount of time. In agile software development approaches like Scrum, it is frequently employed. Burn down charts, however, can be used for any project that makes observable progress over time.

Estimated Effort:

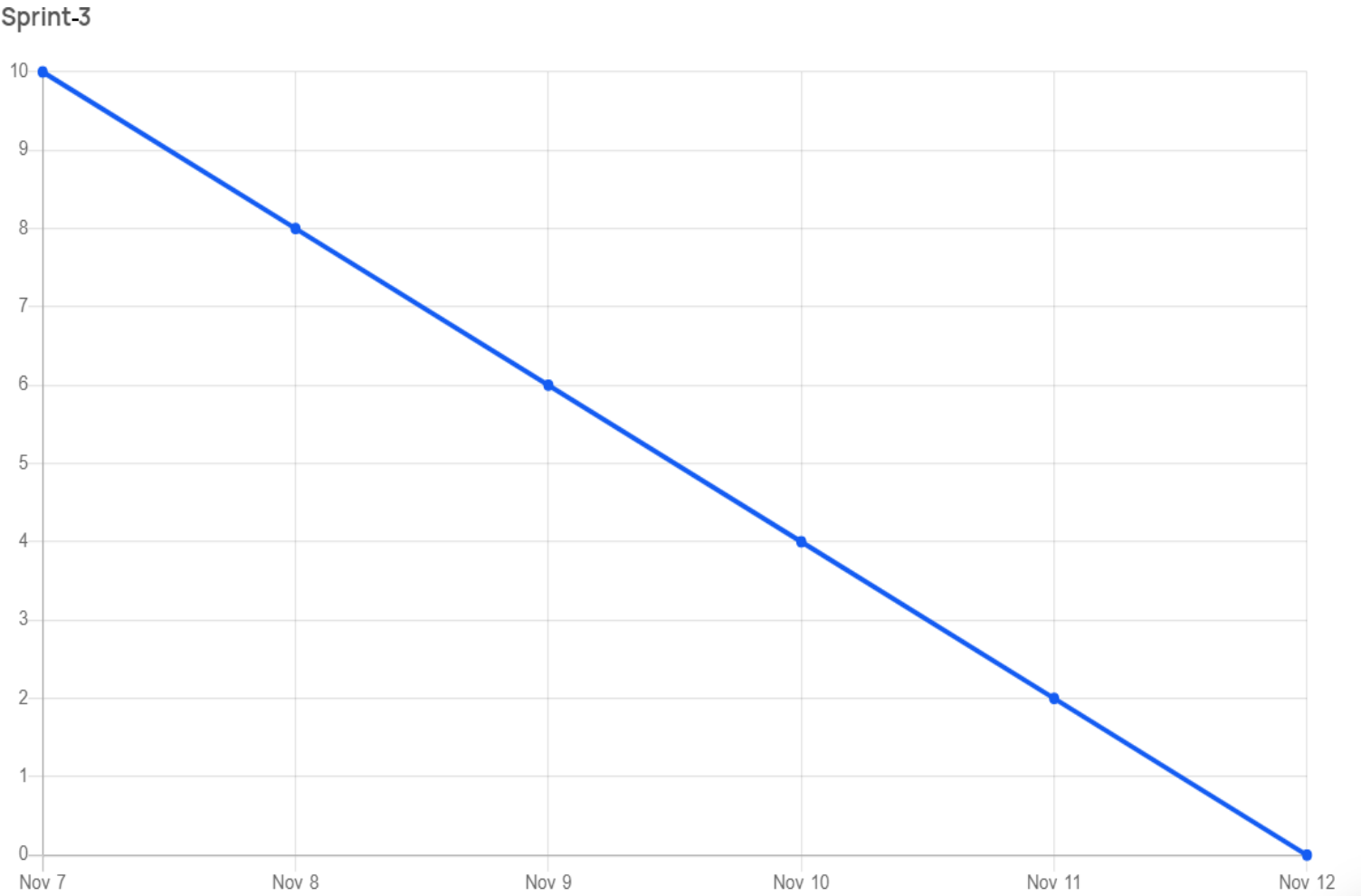
Sprint - 1:



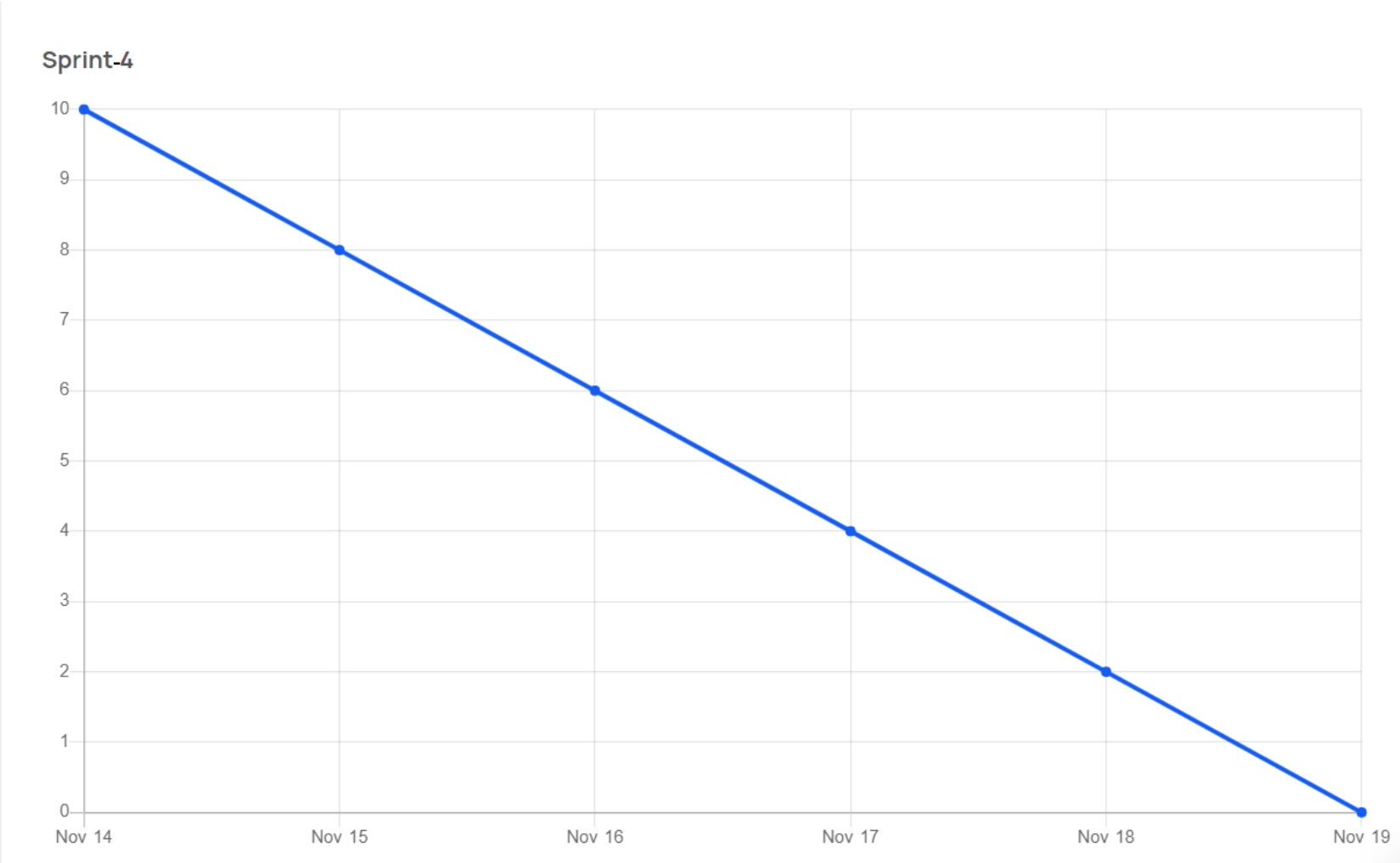
Sprint - 2:



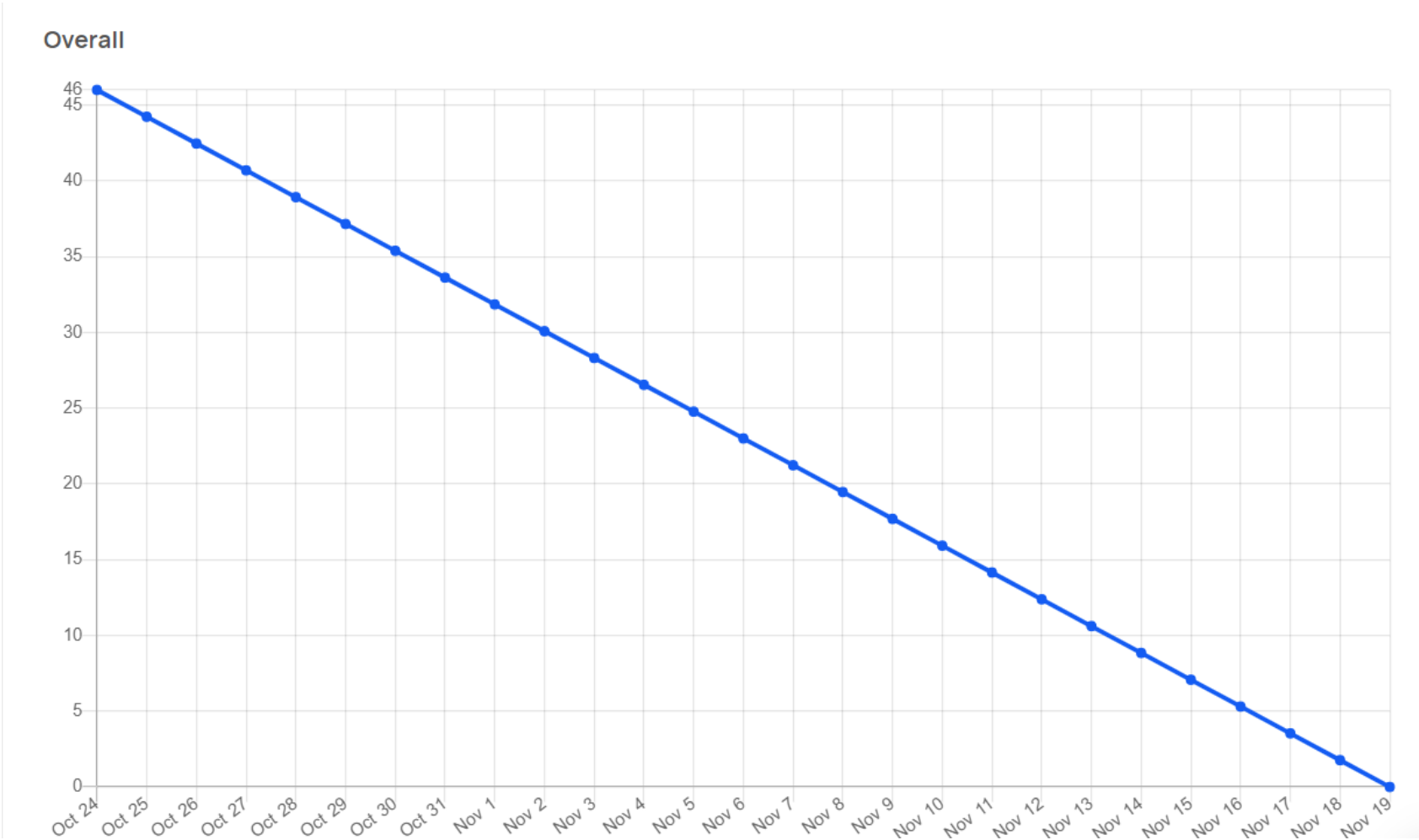
Sprint - 3:



Sprint - 4:



Overall burndown chart:



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Projects / Retail Store Stock Inventory Analytics

Backlog

Q

Epic ▾

Insights

▼ RSSIA Sprint 1 Add dates (3 issues)

0 0 0

Start sprint

⋮

RSSIA-8 As a user, I can register for the application by entering my email, password, and confirming my password.

LOGIN

TO DO ▾

RSSIA-9 As a user, I will receive confirmation email once I have registered for the application

LOGIN

TO DO ▾

RSSIA-12 As a user, I can log into the application by entering email & password

LOGIN

TO DO ▾

+ Create issue

▼ RSSIA Sprint 2 Add dates (2 issues)

0 0 0

Start sprint

⋮

RSSIA-13 As a user, I can view my dashboard and can perform stock prediction and analysis

DASHBOARD

TO DO ▾

RSSIA-14 As a user I can view the list of categorized products and their details

DASHBOARD

TO DO ▾

+ Create issue

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Software project

Projects / Retail Store Stock Inventory Analytics

Roadmap

- Give feedback

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PLANNING

- Roadmap

Backlog

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DEVELOPMENT

Code

Project pages

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Status category

View settings

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

SEP

OCT

NOV

DEC

Today

Weeks

Months

Quarters



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10/25/2022

Milestones and Activities:

MILESTONES	ACTIVITIES
Login	<ul style="list-style-type: none">• Login into Dashboard
Dashboard	<ul style="list-style-type: none">• View Stocks• Perform Predictions• Search Products
Updating Stocks	<ul style="list-style-type: none">• View Products• Add Products• Delete Products
Visualization	<ul style="list-style-type: none">• Report generation• Out of stock prediction• In stock prediction
Discount system	<ul style="list-style-type: none">• Discounts based on credits• Invoice generation
Orders	<ul style="list-style-type: none">• Reorder Stock
Notification system	<ul style="list-style-type: none">• Notification upon critical stock