

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

Date	18 October 2022
Team ID	PNT2022TMID18485
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	Thanaswvtha A, Deepashree VK
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	ThanaswvthaA, Deepashree VK
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	ThanaswvthaA, Deepashree VK
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	ThanaswvthaA, Deepashree VK
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	ThanaswvthaA, Deepashree VK
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	ThanaswvthaA, DeepashreeVK, Aishwarya Tangam 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	Aishwarya Tangam S, Abarna

Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Aishwarya Tangam S,Abarna
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Aishwarya Tangam S,Abarna

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-3	Stock Prediction	USN-10	As a user I can predict out of stock and less stock for a product	5	High	ThanaswvthaA, Deepashree VK
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	ThanaswvthaA, Deepashree VK
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Aishwarya Tangam S,Abarna
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	ThanaswvthaA, Deepashree VK , Aishwarya Tangam S,Abarna
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Aishwarya Tangam S,Abarna
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Aishwarya Tangam S,Abarna

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
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)

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

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Average Velocity</b>
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

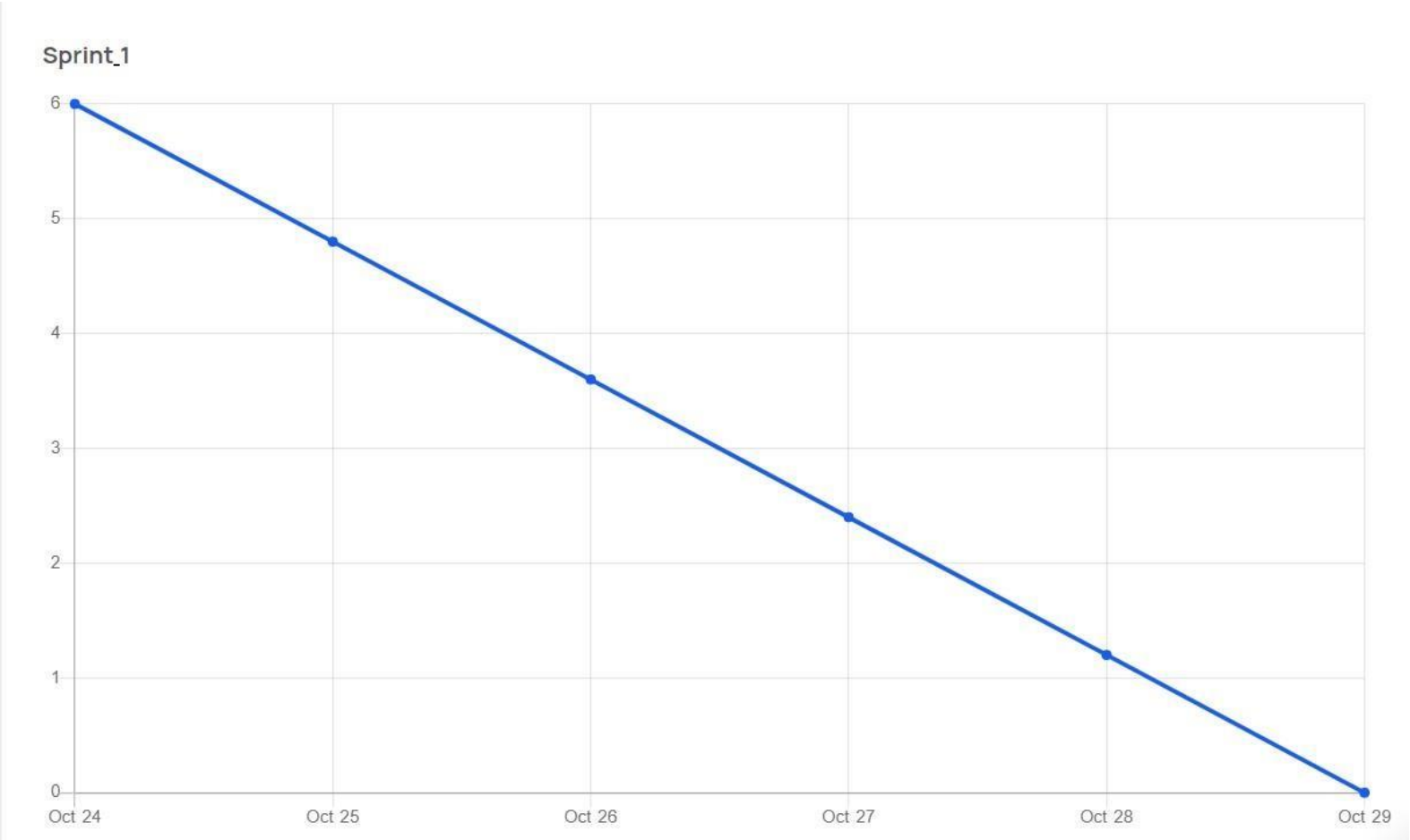
Sprint-4	14	6 Days	$14/6=2.33$
Total	46	24	$46/24=1.91$

### **Burndown Chart:**

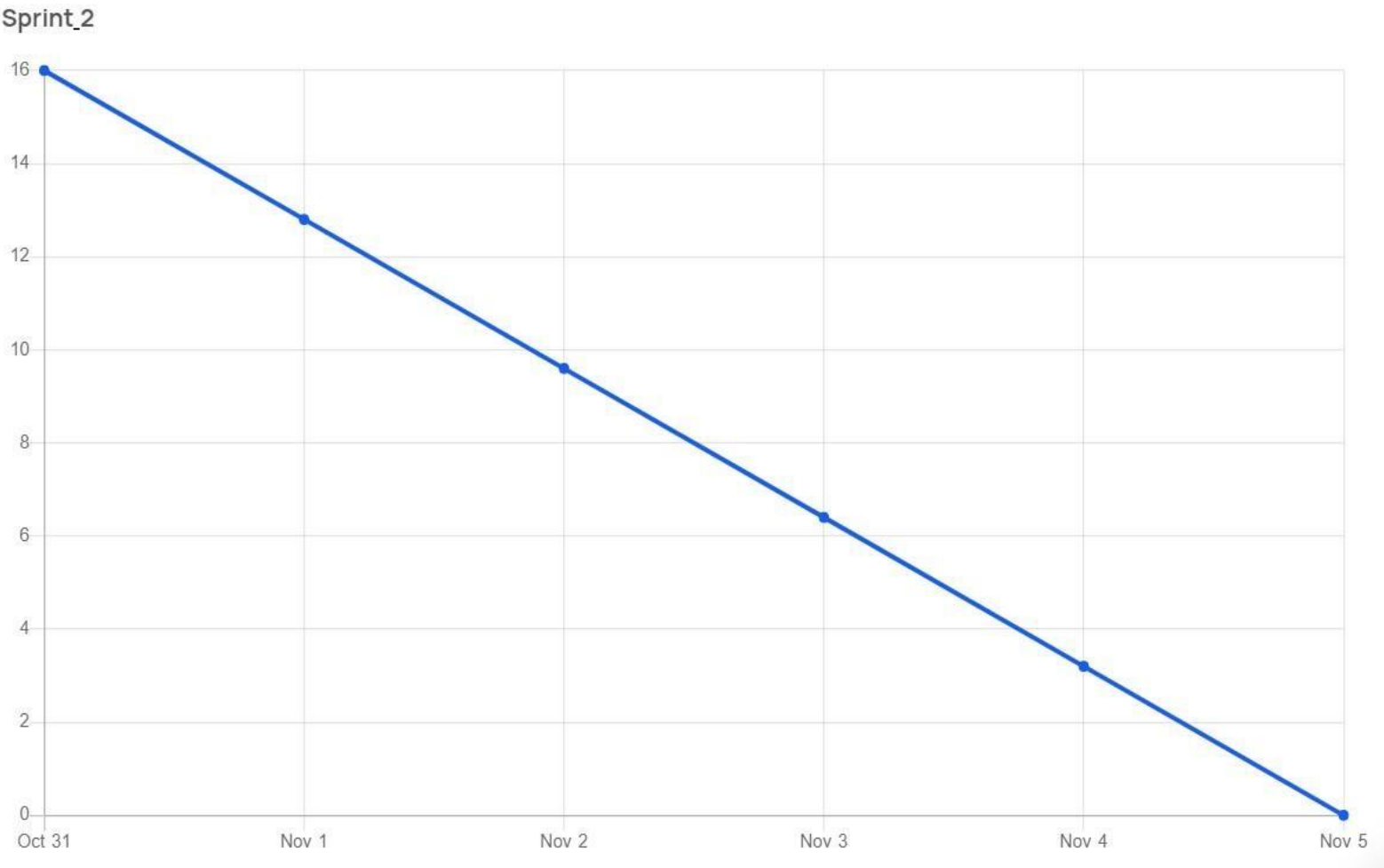
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

### **Estimated Effort:**

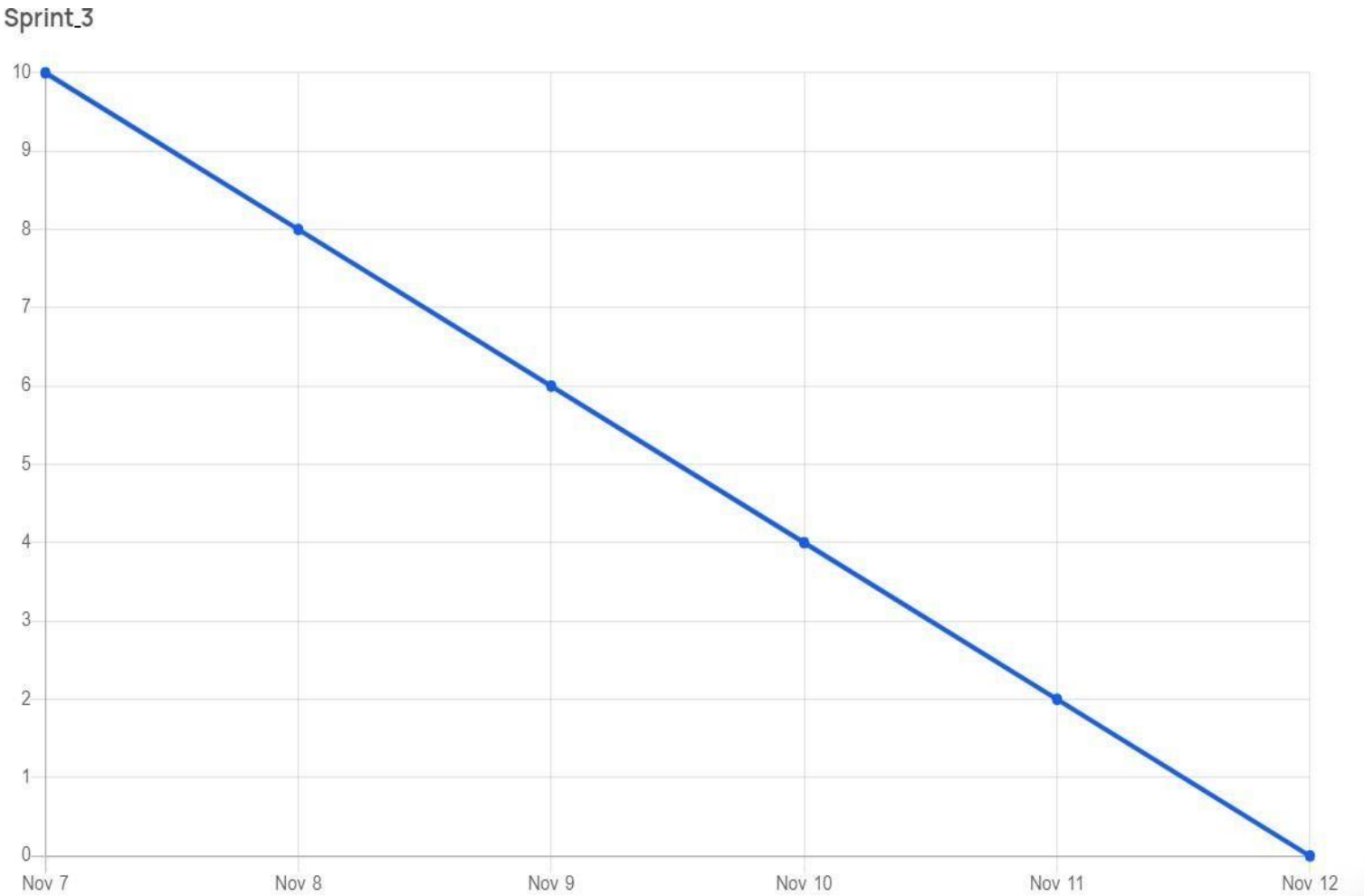
Sprint - 1:



Sprint - 2:



**Sprint - 3:**

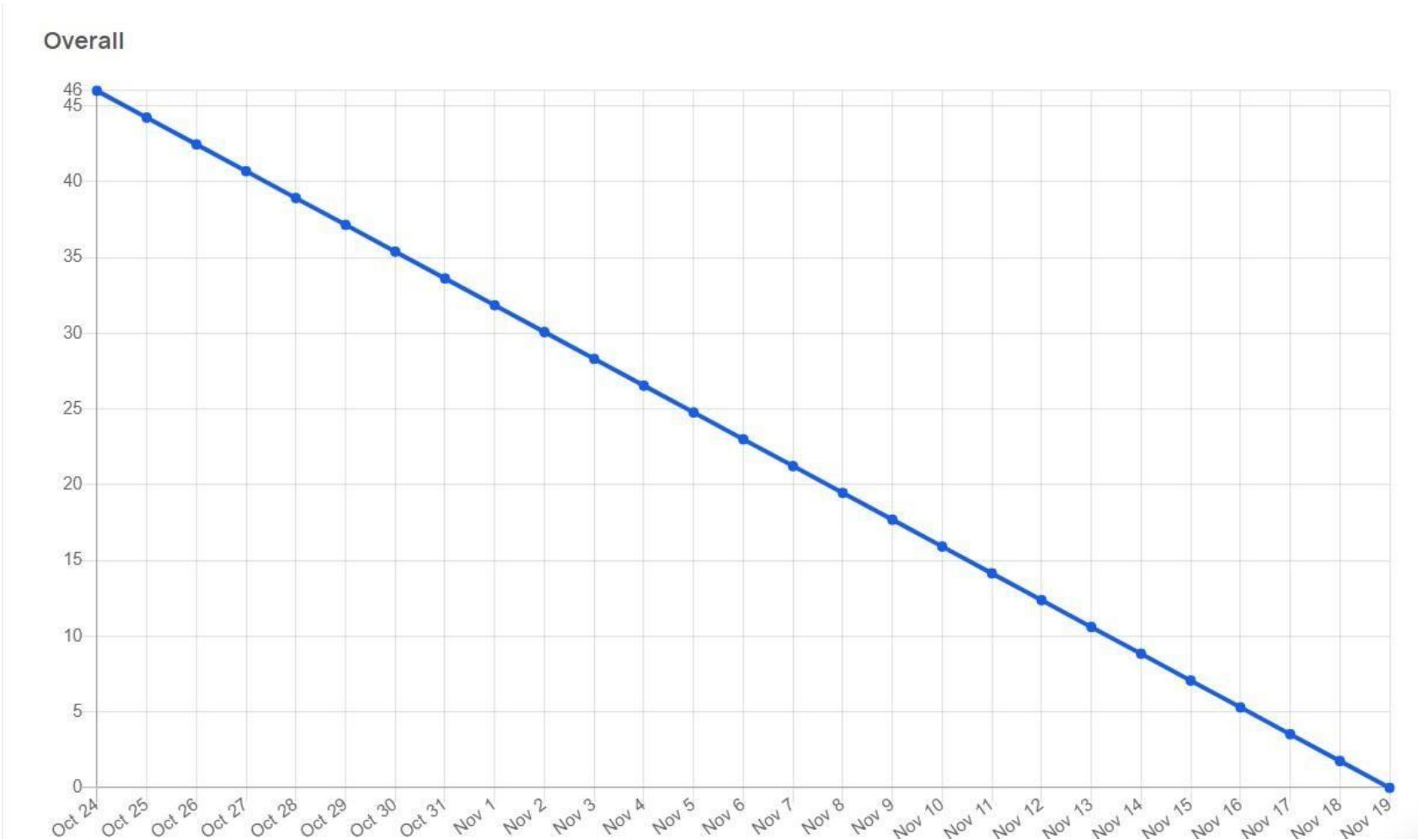


Sprint - 4:

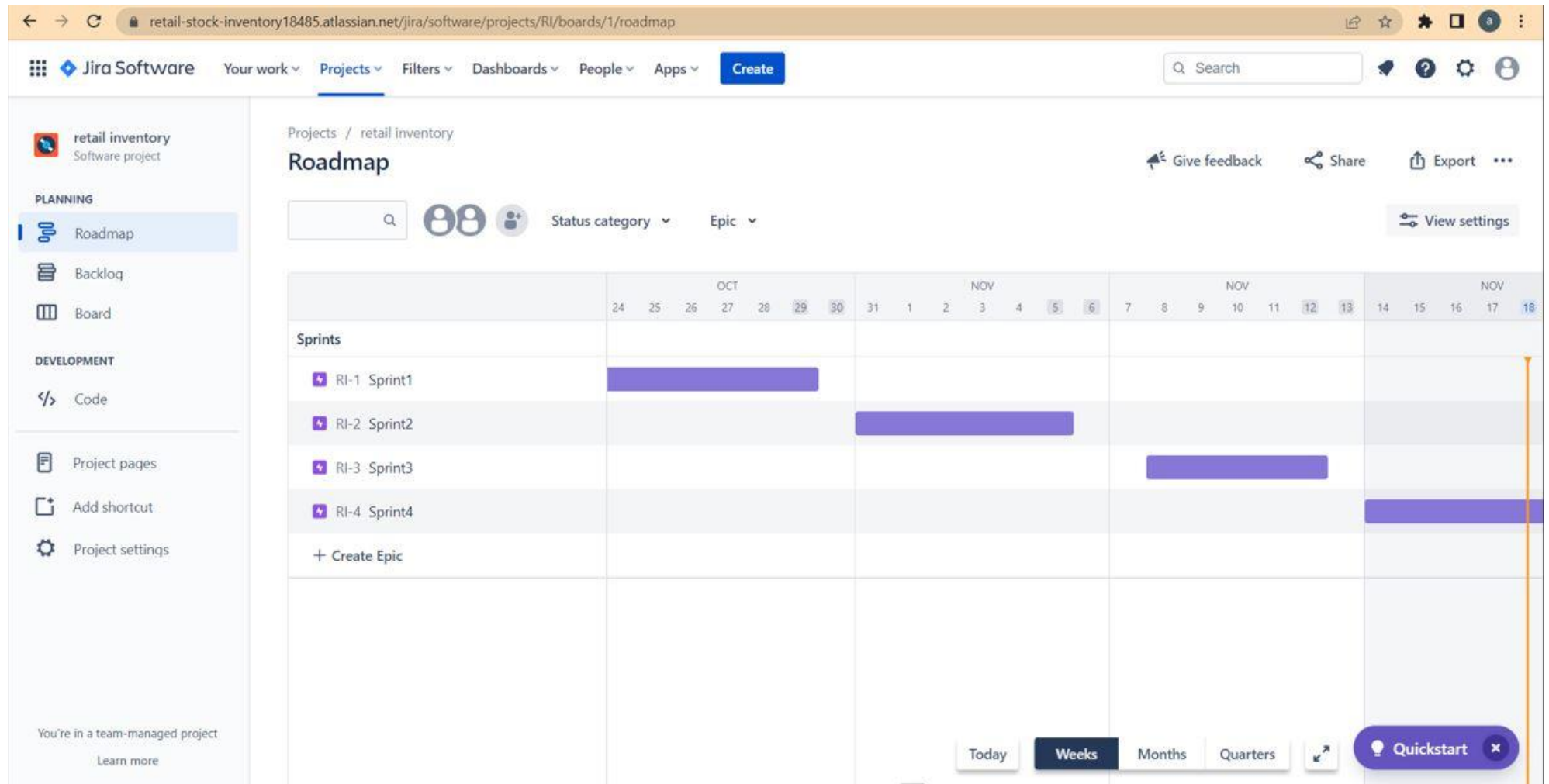




Overall burndown chart



### Overall burndown chart:



Jira Software

Your work

Projects

Filters

Dashboards

People

Apps

Create

Q Search

?

⚙

retail inventory

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

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Learn more

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×

Projects / retail inventory

Backlog

...

Q

Epic

▼

Insights

RI Sprint 7

Add dates

(0 issues)

000

Start sprint

...

Plan a sprint by dragging the sprint footer down below some issues, or by dragging issues here.

+ Create issue

Backlog (2 issues)

200

Create sprint

RI-9 Sprint 4

TO DO


RI-10 Sprint 5

TO DO

+ Create issue




## PLANNING

 Roadmap Backlog Board

## DEVELOPMENT

 Code Project pages Add shortcut Project settings

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Projects / retail inventory

## All sprints



10 days remaining

Complete sprint



Epic ▾

Sprint 4 ▾

Clear filters

GROUP BY

None ▾

 Insights

TO DO 1 OF 1 ISSUE

Sprint 4

☒ RI-9

IN PROGRESS 1 OF 1 ISSUE

Sprint 3

☒ RI-8

DONE 2 OF 2 ISSUES ✓

Sprint 1

☒ RI-6 ✓

Sprint 2

☒ RI-7 ✓ Quickstart

## burnup report

Learn more about burnup reports

 **retail inventory**  
Software project

 Back to project

### Reports

Overview

**Burnup report**

Sprint burndown chart

Cumulative flow diagram

Cycle time report

Deployment frequency report

Sprint

RI Sprint 4 ▾

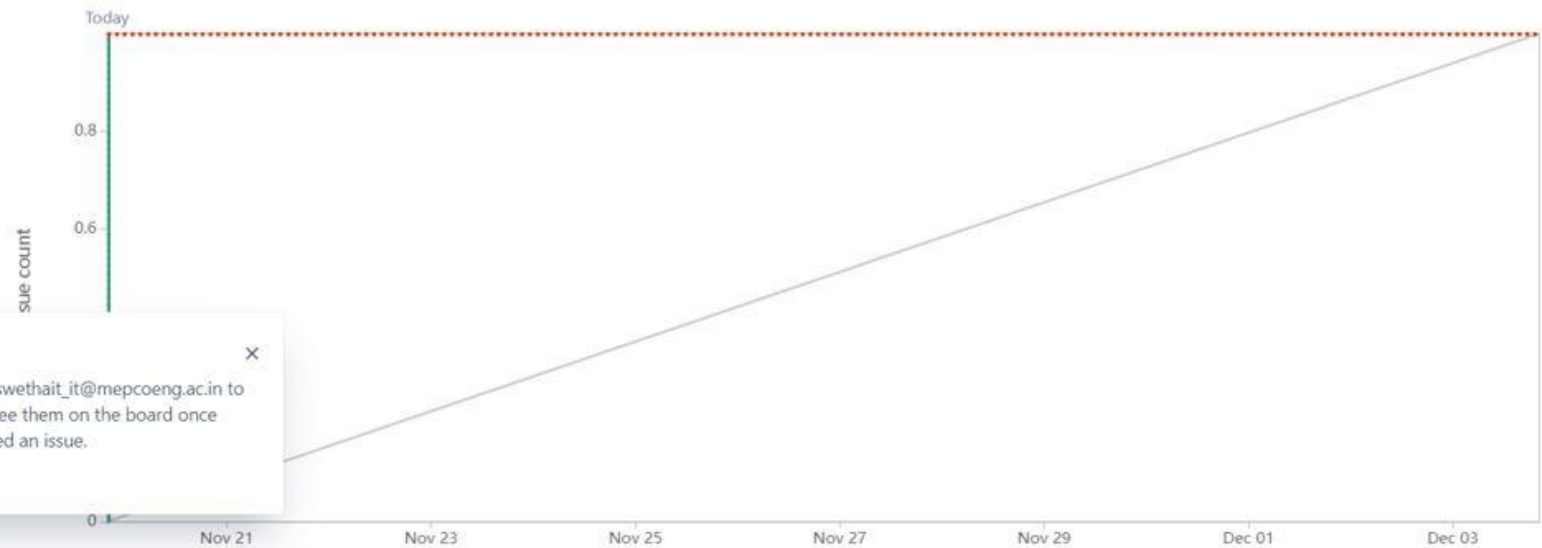
Estimation field

Issue count ▾

⋮

**Date** - November 19th, 2022 - December 3rd, 2022

**Completed work**  Number of issues completed this sprint  
**Guideline**  Ideal burn rate  
**Work Scope**  Number of issues to be completed this sprint



✓ **Invite sent** 

You've added thanaswethait\_it@mepcoeng.ac.in to your project. You'll see them on the board once they've been assigned an issue.

[View users](#)

You're in

[Learn more](#)

 retail inventory  
Software project Back to project

## Reports

Overview

Burnup report

| Sprint burndown chart

Cumulative flow diagram

Cycle time report

Deployment frequency report

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sprint

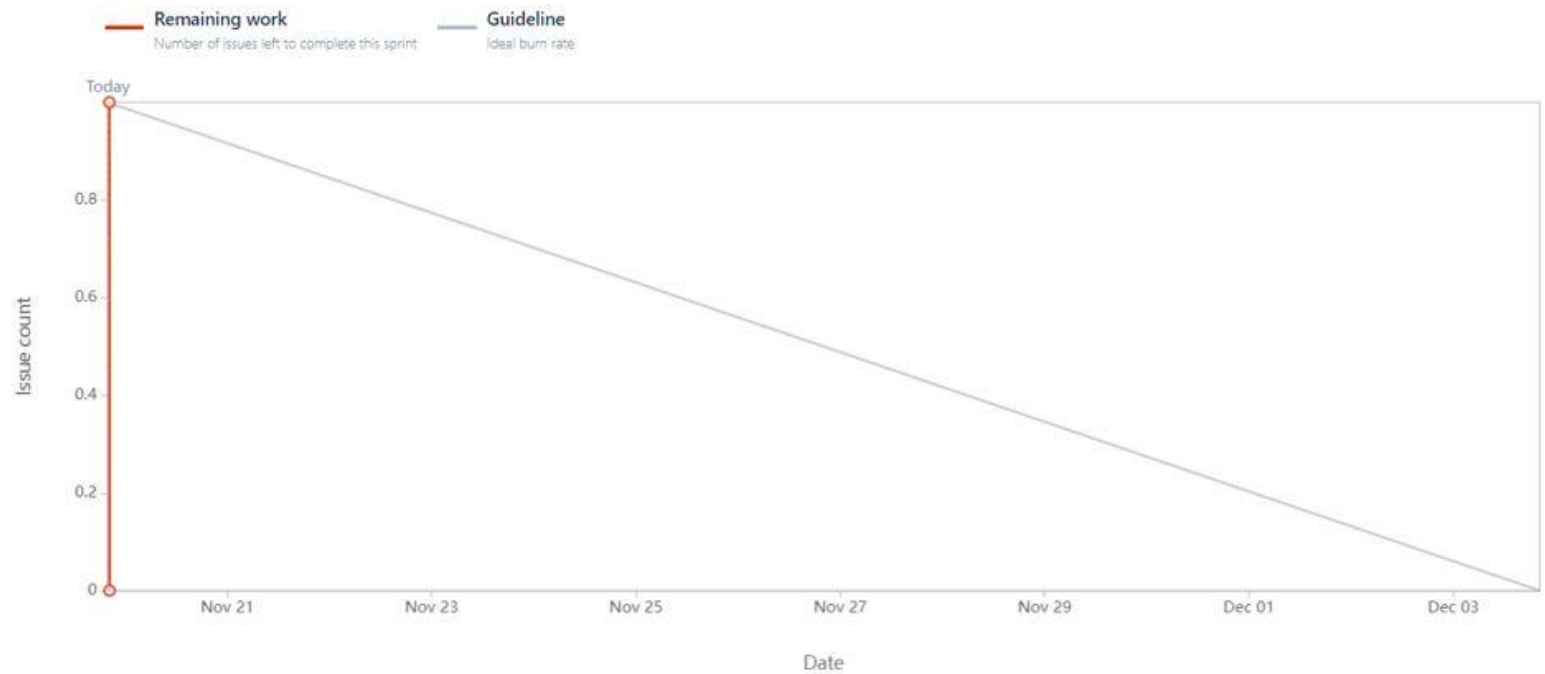
RI Sprint 2 ▾

estimation field

Issue count ▾

⋮

Date - November 19th, 2022 - December 3rd, 2022



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