

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID15218
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	Harish Babu V, Kaviarasu M
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Harish Babu V, Kaviarasu M
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Harish Babu V, Kaviarasu M
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Harish Babu V, Kaviarasu M
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Harish Babu V, Kaviarasu M
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Harish Babu V, Kaviarasu M, Thiyanesh C
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Harish Babu V, Kumaravel G
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Kaviarasu M, Thiyanesh C
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Kumaravel G, Thiyanesh C

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	Kumaravel G, Thiyanesh C
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Kaviarasu M, Thiyanesh C
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Harish Babu V, Kumaravel G
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Kumaravel G, Thiyanesh C, Harish Babu V
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Kaviarasu M, Thiyanesh C
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Harish Babu V, Kaviarasu M

#### 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)

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

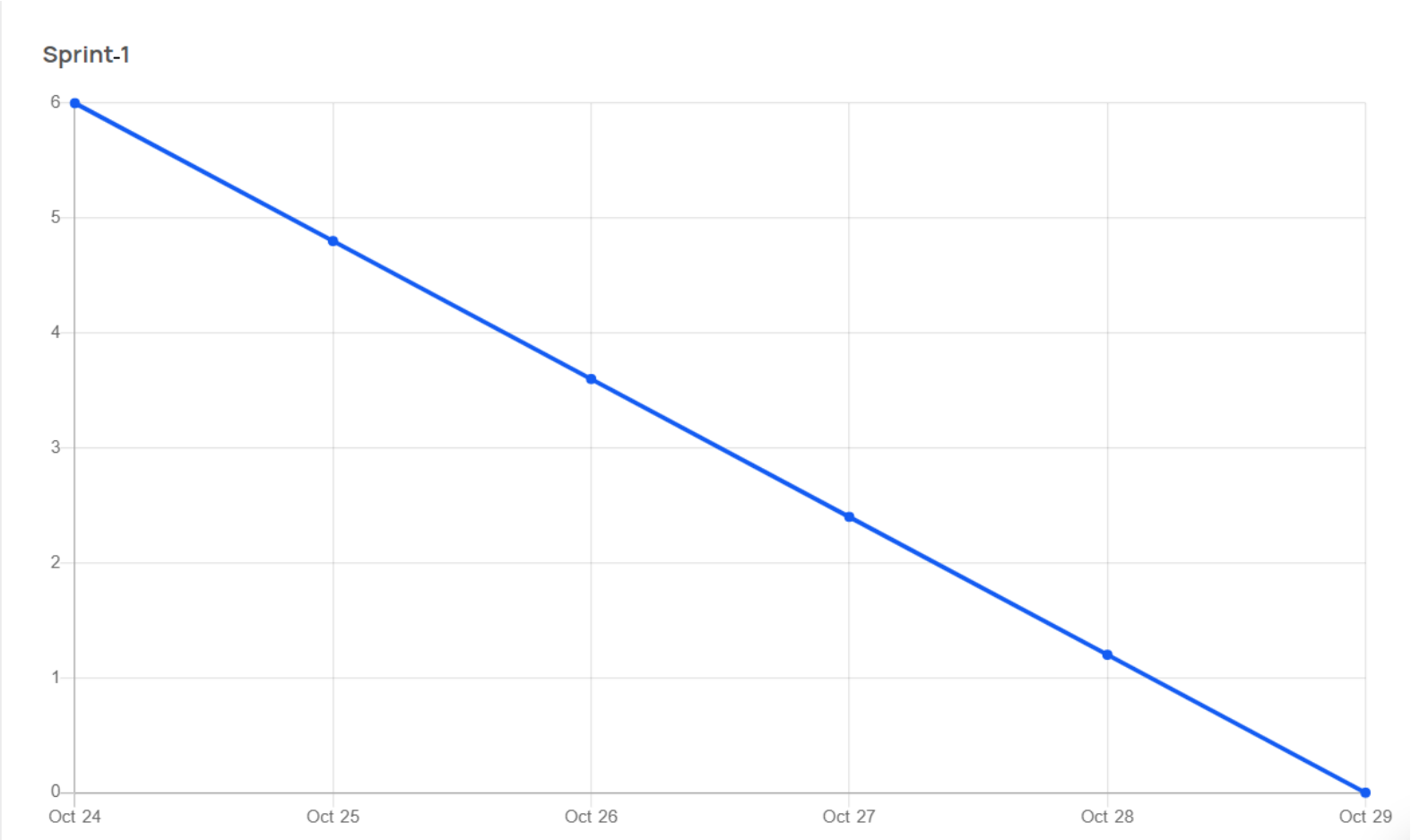
Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

#### Burndown Chart:

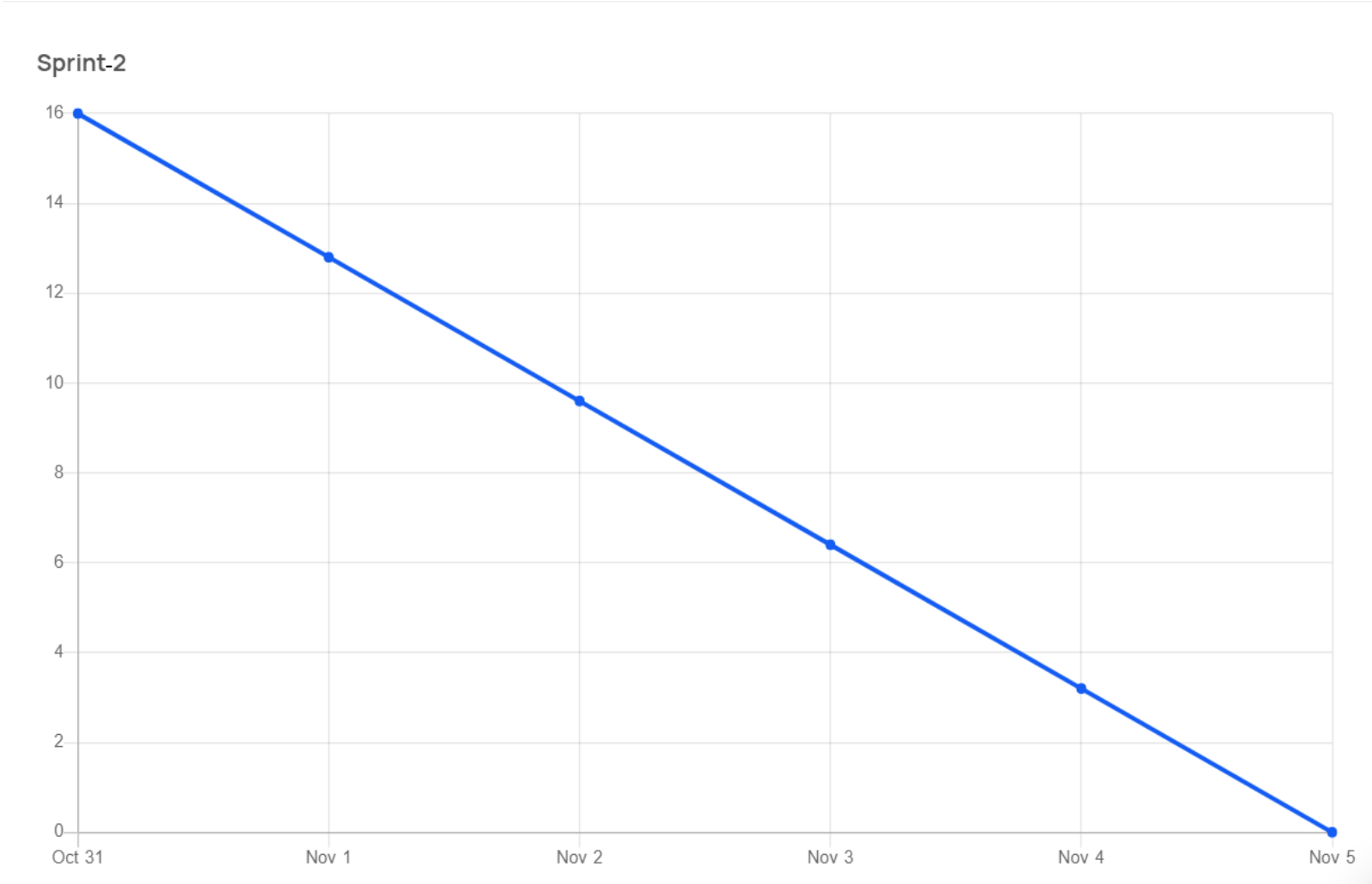
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

#### Estimated Effort:

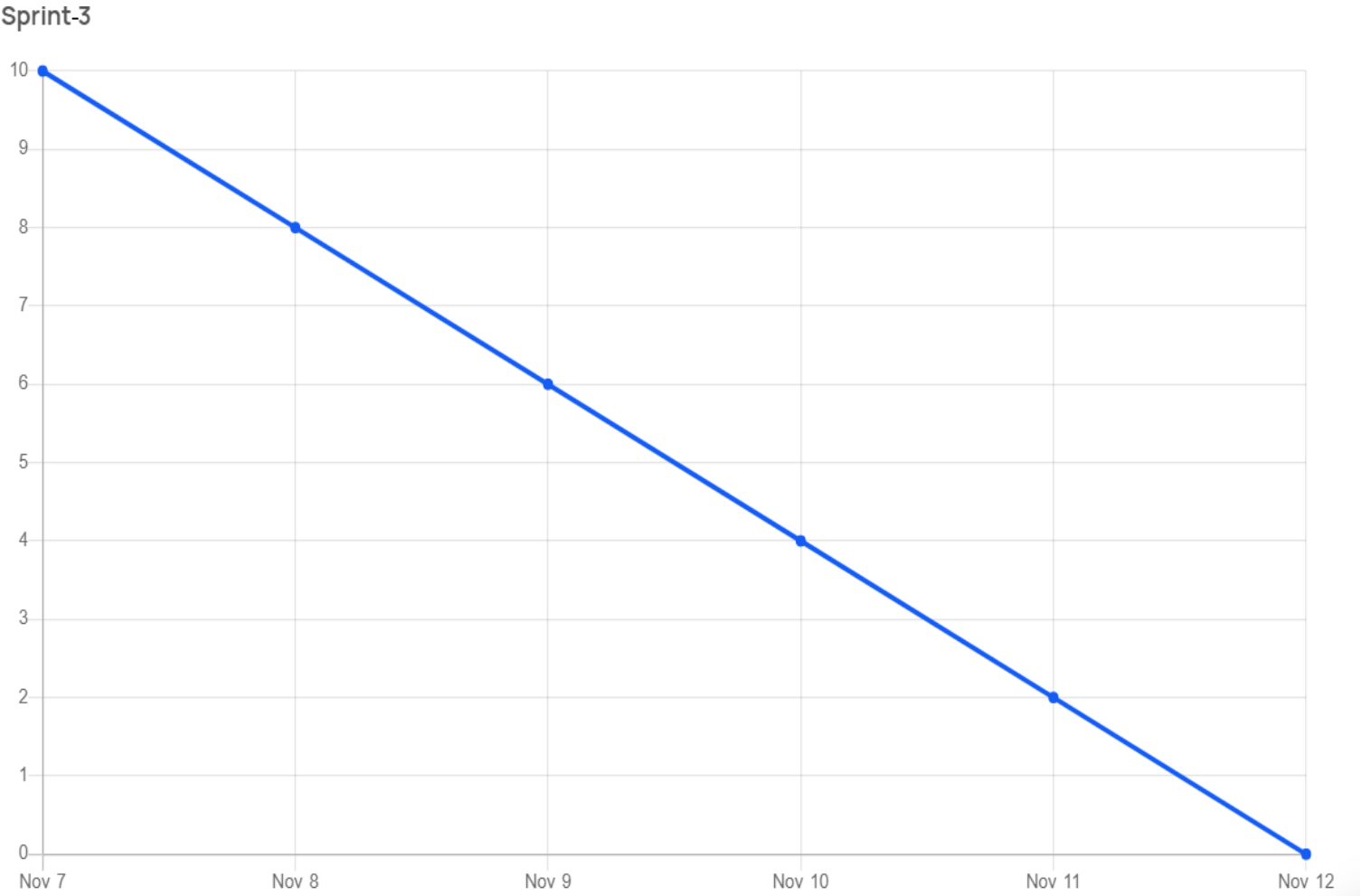
Sprint - 1:



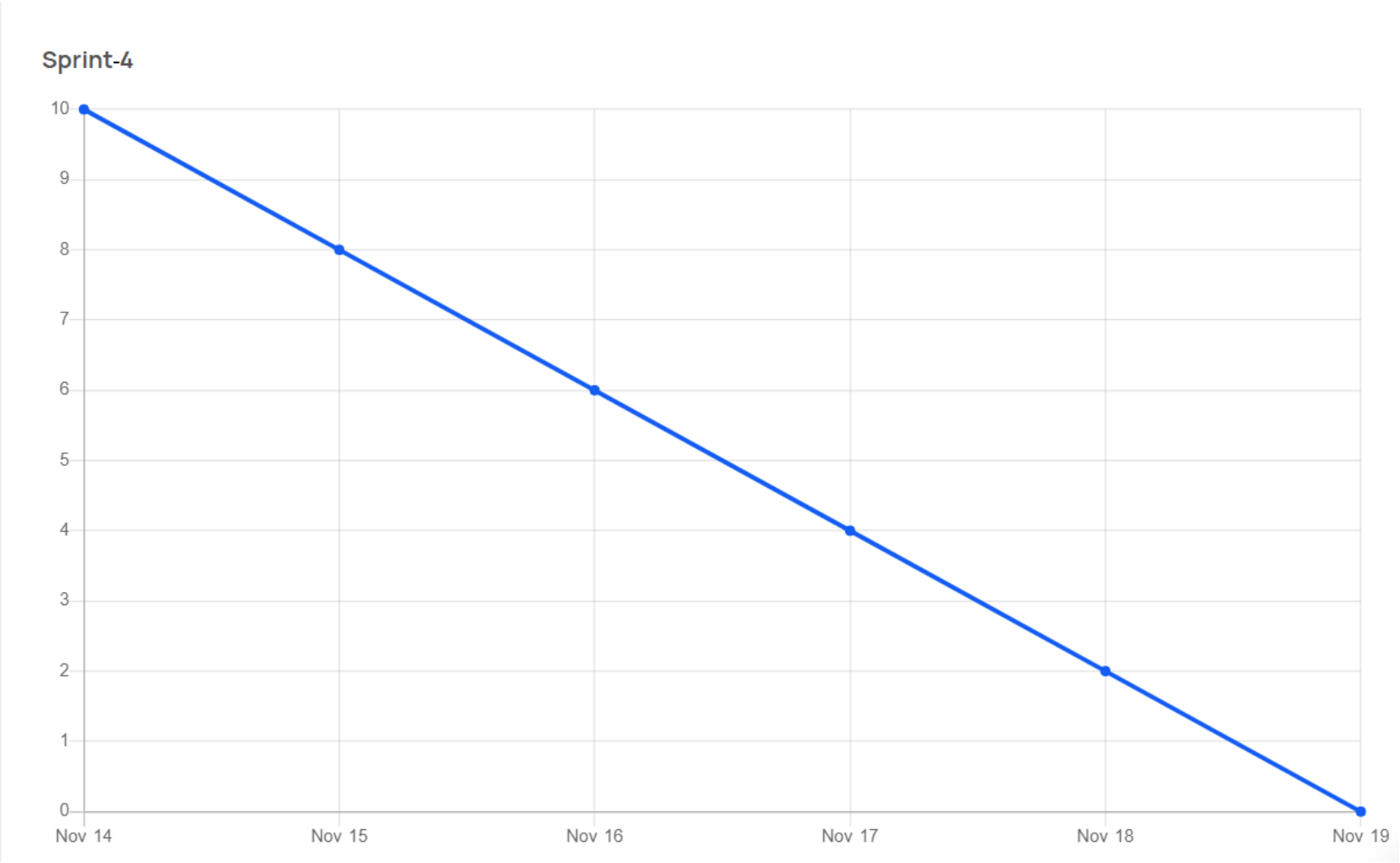
Sprint - 2:



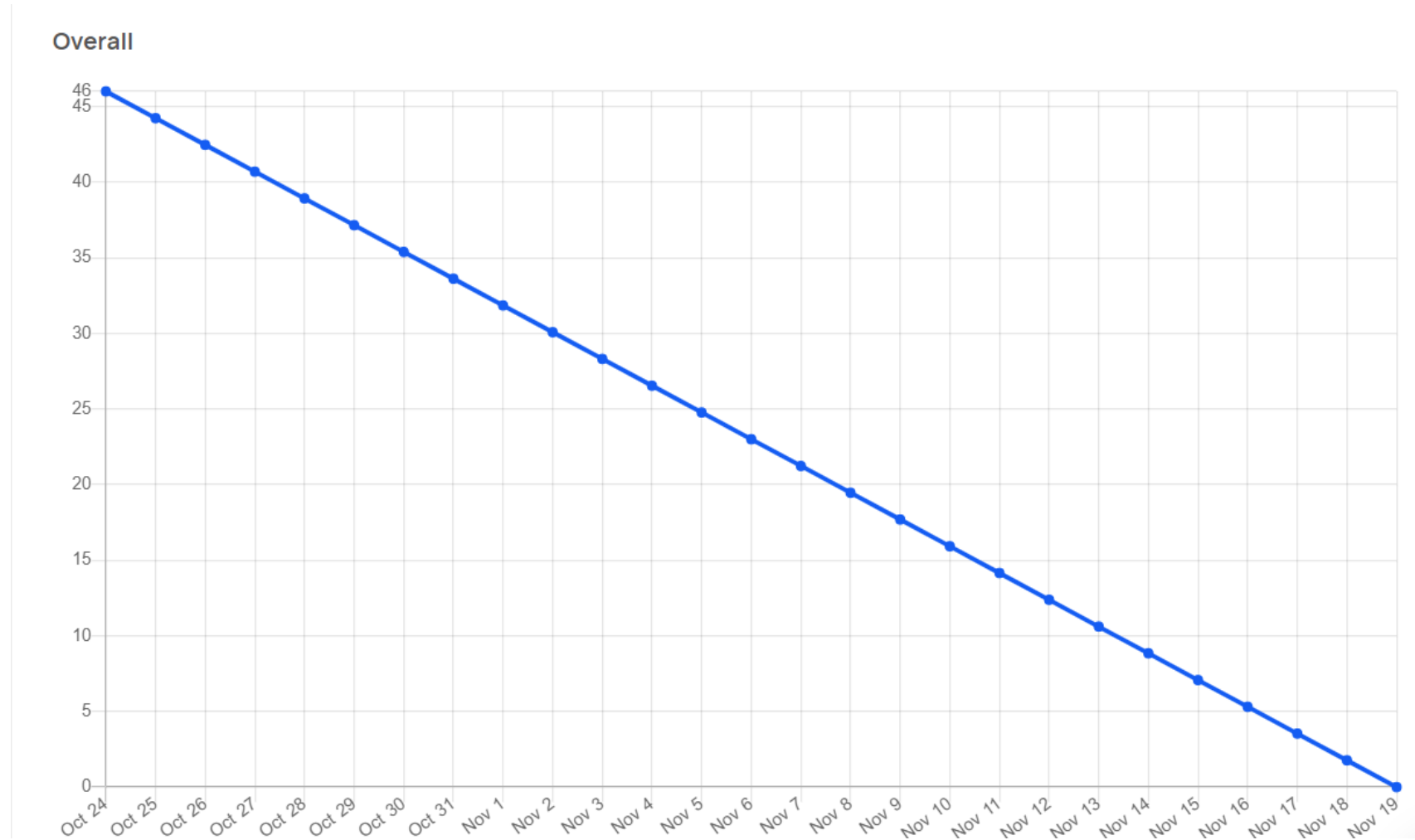
Sprint - 3:



Sprint - 4:

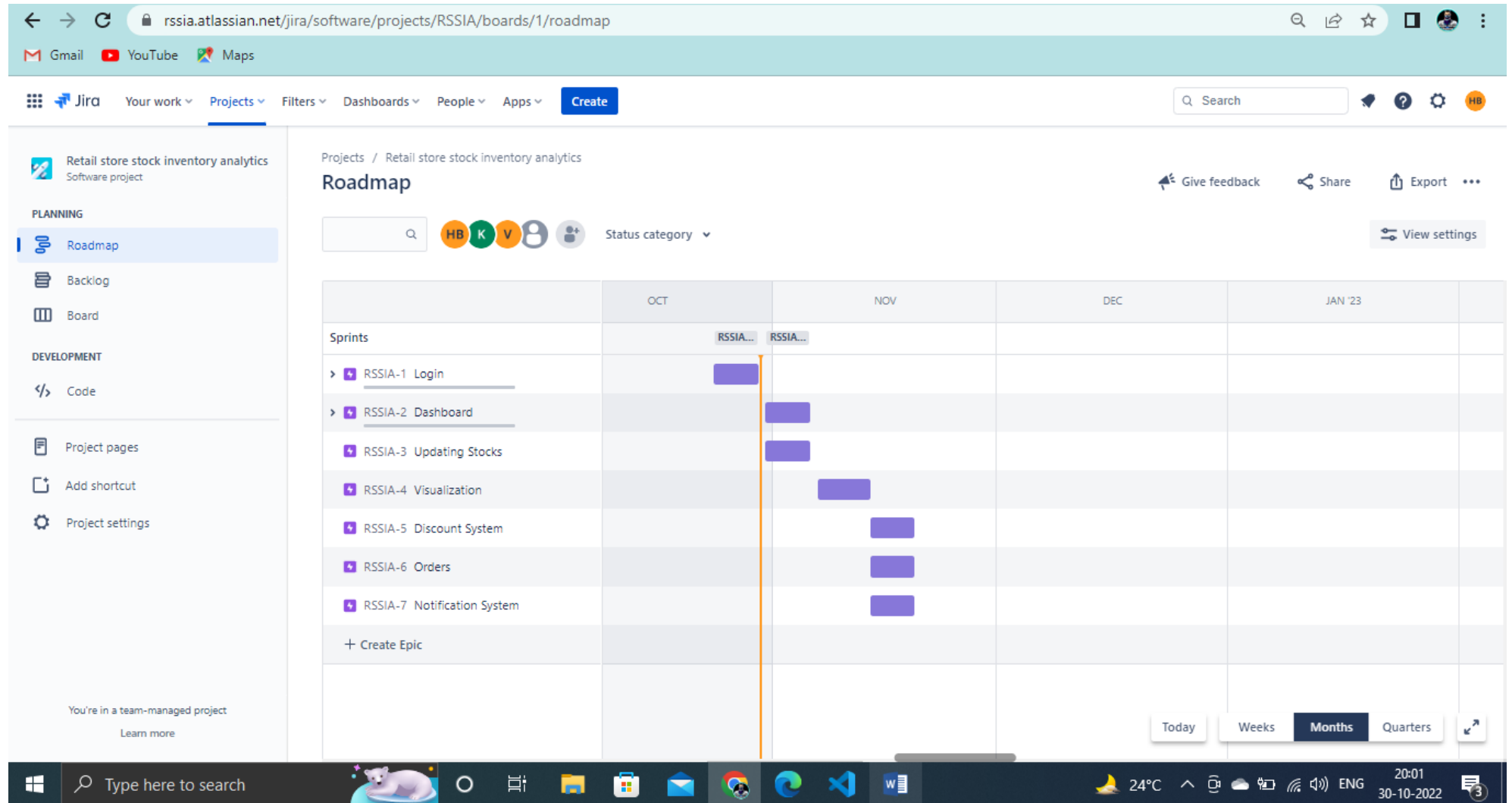


## Overall burndown chart:





## Project Planning Tool:



Retail store stock inventory analytics  
Software project

PLANNING

- Roadmap
- Backlog
- Board

DEVELOPMENT

- Code
- Project pages
- Add shortcut
- Project settings

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Projects / Retail store stock inventory analytics

## Backlog

Q HB K V Epic v

Insights

▼ RSSIA Sprint 1 24 Oct – 29 Oct (3 issues) 3 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 HB
- RSSIA-9 As a user, I will receive confirmation email once I have registered for the application LOGIN TO DO K
- RSSIA-10 As a user, I can log into the application by entering email & password LOGIN TO DO V

+ Create issue

▼ RSSIA Sprint 2 31 Oct – 5 Nov (2 issues) 2 0 0 Start sprint

- RSSIA-11 As a user, I can view my dashboard and can perform stock prediction and analysis DASHBOARD TO DO K
- RSSIA-12 As a user I can view the list of categorized products and their details DASHBOARD TO DO HB

+ Create issue

**Milestones and Activities:**

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>