

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID23114
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	Deepthi J H Dhurga S
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Priyanka N J Sangavi S
Sprint-1	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Deepthi J H Dhurga S
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Priyanka N J Sangavi S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Deepthi J H Dhurga S
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Deepthi J H Priyanka N J Sangavi 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	Deepthi J H Dhurga S
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Priyanka N J Sangavi S
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Deepthi J H Dhurga 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	Priyanka N J Sangavi S
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Deepthi J H Dhurga S
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Priyanka N J Sangavi S
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Deepthi J H Dhurga S Priyanka N J Sangavi S
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Deepthi J H Dhurga S
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Priyanka N J Sangavi 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)

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

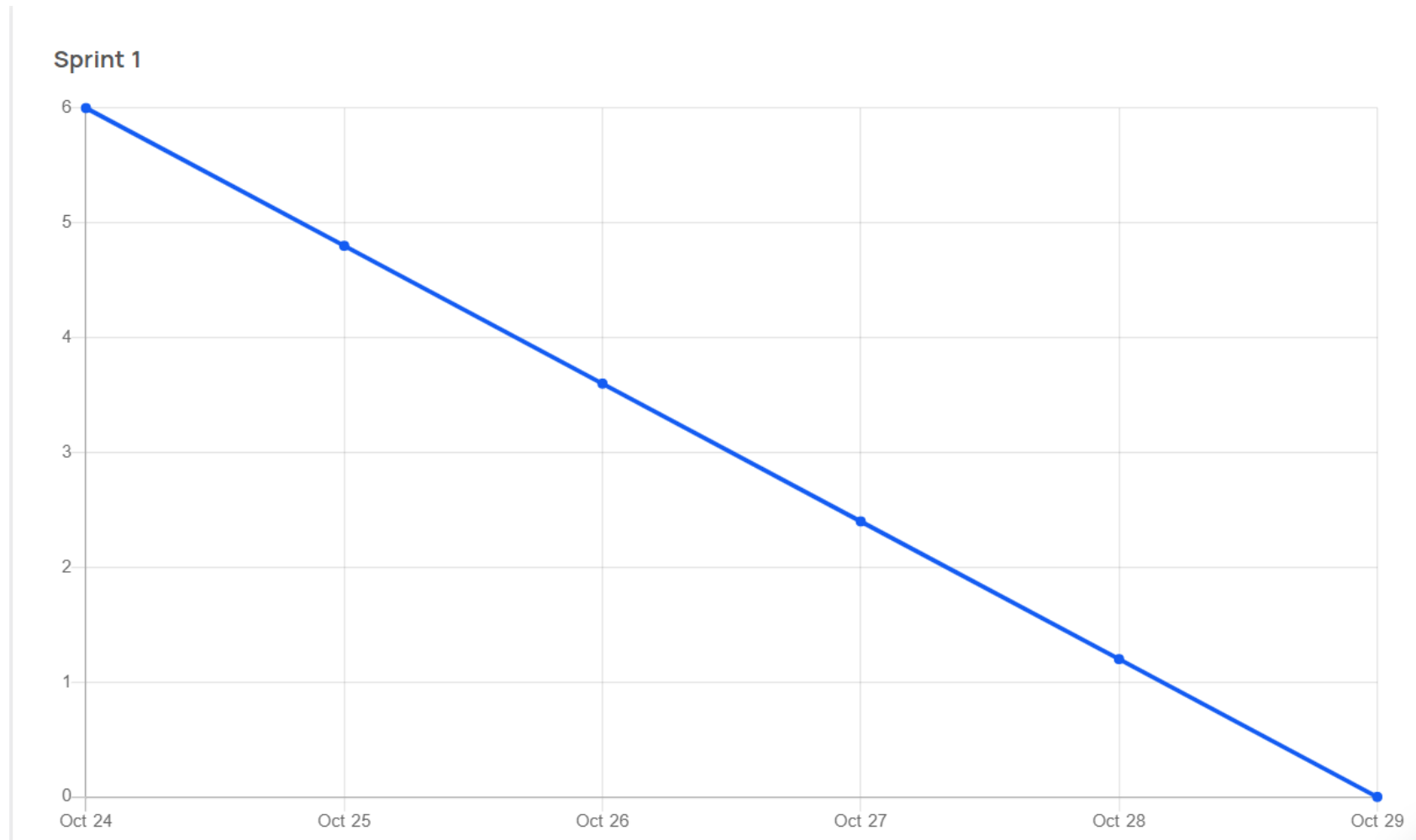
Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

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.

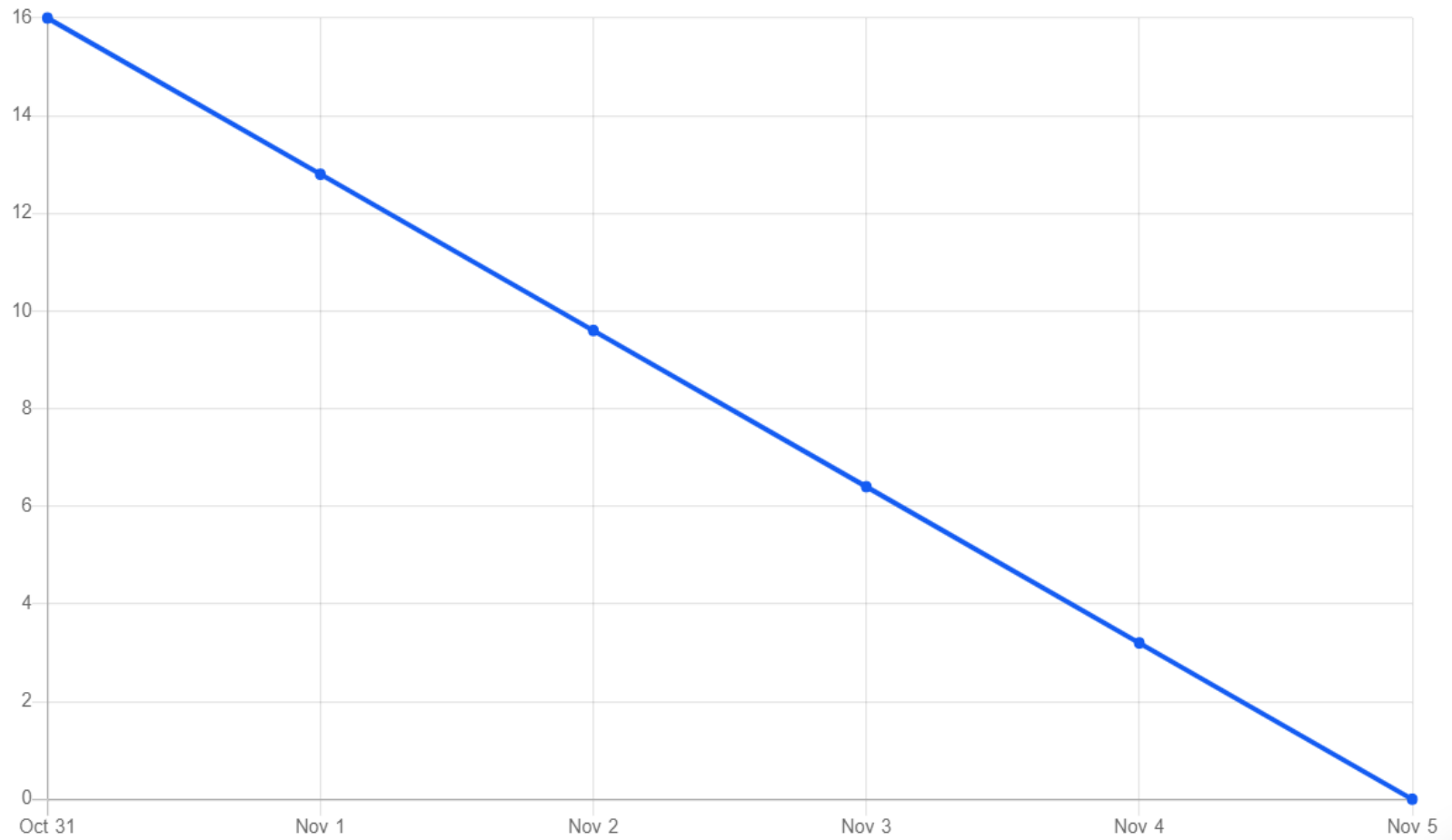
Estimated Effort:

Sprint - 1:



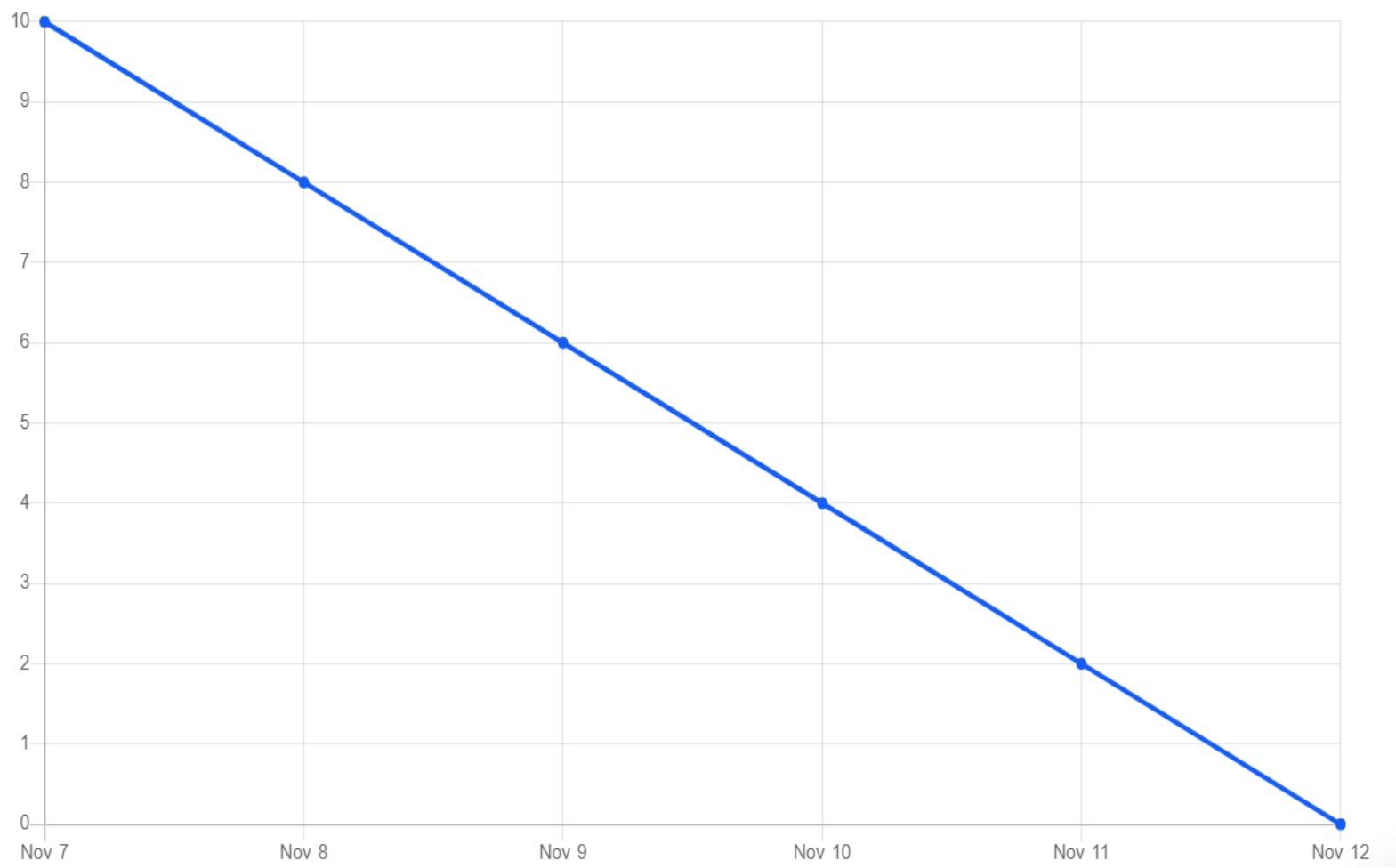
Sprint - 2:

Sprint 2



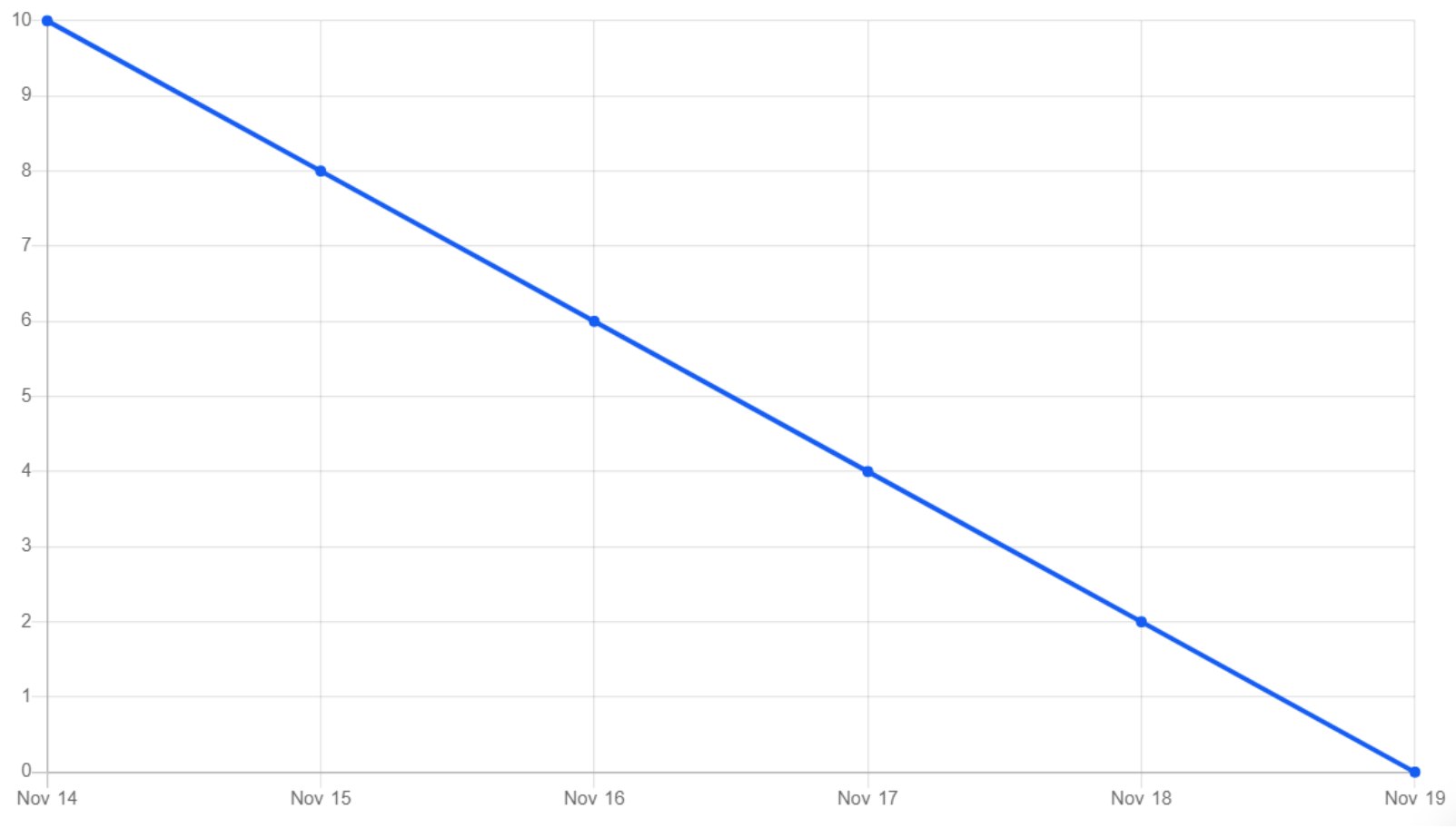
Sprint - 3:

Sprint 3

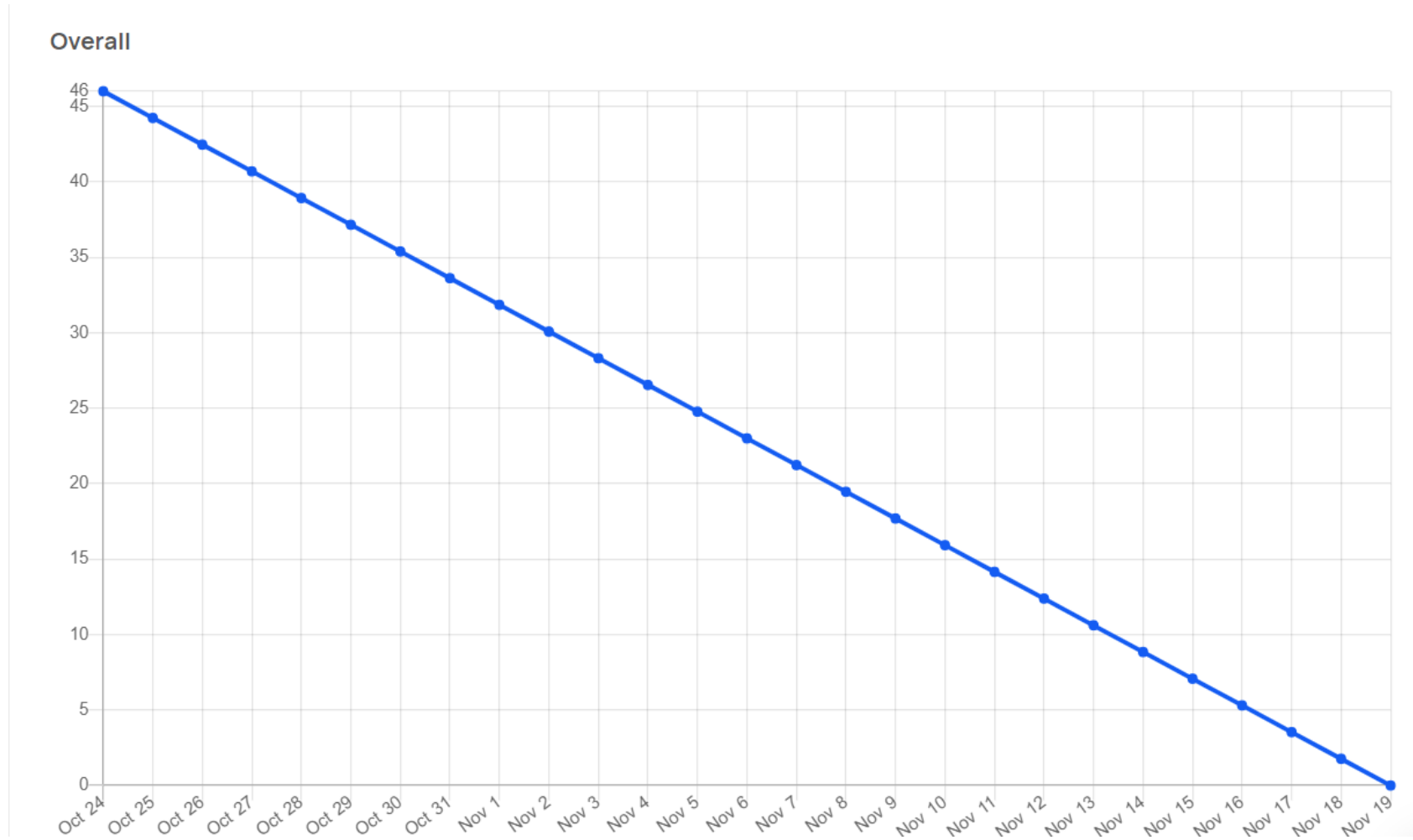


Sprint - 4:

Sprint 4



Overall burndown chart:



Project Planning Tool:

The screenshot displays the Jira Software Roadmap view for the project "Retail store stock inventory analysis". The interface is organized into several sections:

- Top Navigation Bar:** Includes the Jira logo, "Your work" dropdown, "Projects" dropdown, "Filters", "Dashboards", "People", "Apps", and a "Create" button. A search bar is also present.
- Left Sidebar:** Contains navigation options for "PLANNING" (Roadmap, Backlog, Board) and "DEVELOPMENT" (Code). It also includes links for "Project pages", "Add shortcut", and "Project settings".
- Main Content Area:** Displays the "Roadmap" view. It shows a timeline from September to December. Tasks are mapped out as horizontal bars, indicating their duration. A vertical orange line marks the current date, which is in early October.
- Task Details:** The tasks listed are:
 - RET-16 Login
 - RET-17 Dashboard
 - RET-18 Updating stocks
 - RET-19 Visualization
 - RET-20 Discount system
 - RET-21 Orders
 - RET-22 Notification system
- Bottom Bar:** Includes a "Today" button, a "Weeks" button, a "Months" button (which is selected), a "Quarters" button, and a "Quickstart" button.

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](#)

Projects / Retail store stock inventory analysis

Backlog

Search | DC | D | P | S | Epic

Insights

RET Sprint 1 Add dates (5 issues)

0 0 0 Start sprint

- RET-1 As a user, I can register for the application by entering my email, password, and confirming my password. TO DO DC
- RET-2 As a user, I will receive confirmation email once I have registered for the application TO DO D
- RET-3 As a user, I can register for the application through Facebook TO DO P
- RET-4 As a user, I can register for the application through Gmail TO DO S
- RET-5 As a user, I can log into the application by entering email & password TO DO DC

+ Create issue

RET Sprint 2 Add dates (4 issues)

0 0 0 Start sprint

- RET-6 As a user, I can view my dashboard and can perform stock prediction and analysis TO DO DC
- RET-7 As a user I can view the list of categorized products and their details TO DO D
- RET-8 As a user I can search through the product using barcode TO DO
- RET-9 As a user I can add/delete products TO DO S

Quickstart

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](#)

Projects / Retail store stock inventory analysis

Backlog

Search | DC D P S | Epic

Insights

RET Sprint 3 Add dates (2 issues)

0 0 0 Start sprint

- RET-10 As a user I can generate reports based on product sales
- RET-11 As a user I can predict out of stock and less stock for a product

+ Create issue

RET Sprint 4 Add dates (4 issues)

0 0 0 Start sprint

- RET-12 As a user I can view notification for expired and out of stock products
- RET-13 As a user I can reorder stocks based on predictions and notification
- RET-14 As a user I can generate invoice calculating taxes, discount and calculate credits
- RET-15 As a user I can provide discount based on credit points

+ Create issue

Quickstart

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