

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID33075
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	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Alan M Asiq Rahman A
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Asiq Rahman A Balaji M
Sprint-1	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Alan M Balaji M
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Alan M Asiq Rahman A
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Balaji M Michael Danieal N
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Asiq Rahman A Balaji M Michael Danieal N
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Alan M Balaji M
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Alan M Balaji M
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Alan M Balaji M

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	Asiq Rahman A Balaji M
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Alan M Balaji M
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Asiq Rahman A Balaji M
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Balaji M Michael Danieal N Alan M Asiq Rahman A
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Alan M Balaji M
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Asiq Rahman A Balaji 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:

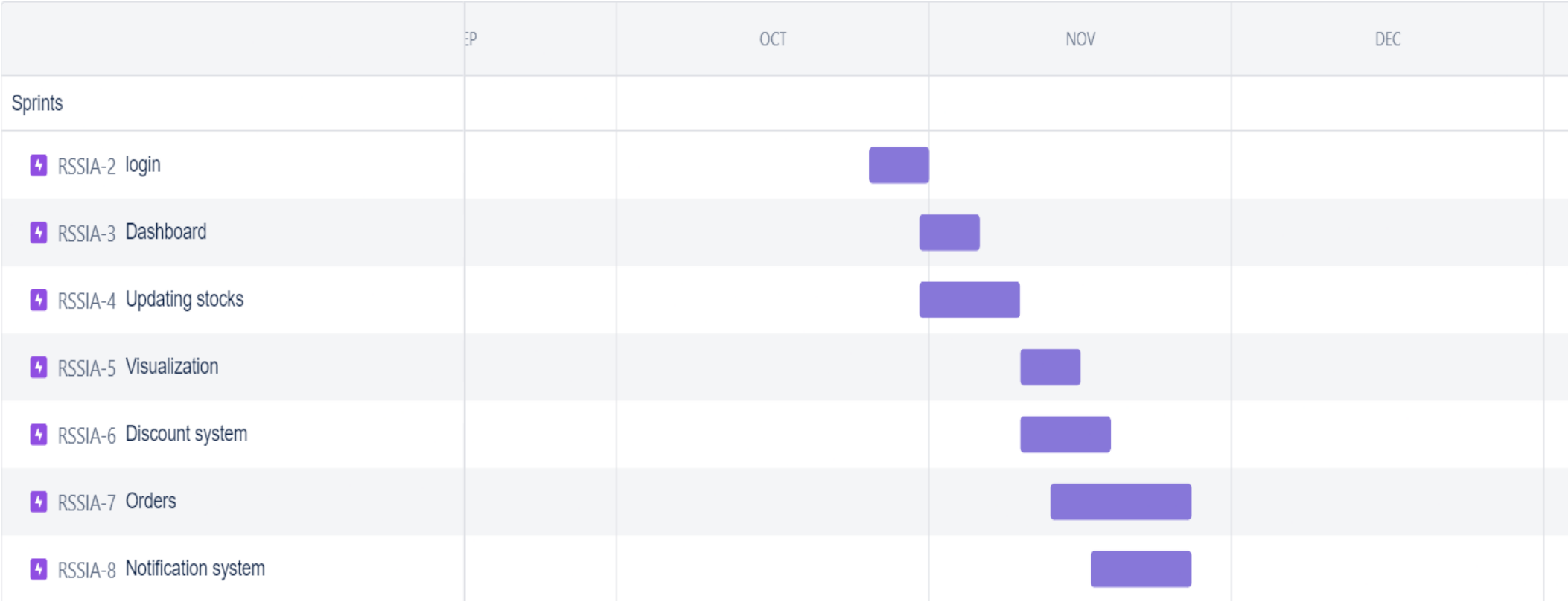
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

The screenshot shows the Jira interface for the 'RSSIA' software project. The left sidebar contains navigation options: 'PLANNING' (Roadmap, Backlog, Board) and 'DEVELOPMENT' (Code, Project pages, Add shortcut, Project settings). The main area displays 'RSSIA Sprint 1' with a progress bar indicating '13 days remaining' and a 'Complete sprint' button. The board is organized into three columns: 'TO DO 3 ISSUES', 'IN PROGRESS 2 ISSUES', and 'DONE ✓'. The 'TO DO' column contains three user stories: 'As a user, I can register for the application through Facebook' (RSSIA-11), 'As a user, I can register for the application through Gmail' (RSSIA-12), and 'As a user, I will receive confirmation email once I have registered for the application' (RSSIA-10). The 'IN PROGRESS' column contains two user stories: 'As a user, I can register for the application by entering my email, password, and confirming my password.' (RSSIA-9) and 'As a user, I can log into the application by entering email & password' (RSSIA-13). The 'DONE' column is currently empty. A 'Quickstart' button is visible in the bottom right corner.

Column	Issue ID	Description
TO DO 3 ISSUES	RSSIA-11	As a user, I can register for the application through Facebook
	RSSIA-12	As a user, I can register for the application through Gmail
	RSSIA-10	As a user, I will receive confirmation email once I have registered for the application
IN PROGRESS 2 ISSUES	RSSIA-9	As a user, I can register for the application by entering my email, password, and confirming my password.
	RSSIA-13	As a user, I can log into the application by entering email & password
DONE ✓		

Project Planning Tool:

Roadmap:



Projects / RSSIA

Backlog

Michael Danieal 034 Epic

Insights

RSSIA Sprint 1 Add dates (5 issues) 0 0 0 Start sprint

- RSSIA-9 As a user, I can register for the application by entering my email, password, and confirming my password. TO DO
- RSSIA-10 As a user, I will receive confirmation email once I have registered for the application TO DO
- RSSIA-11 As a user, I can register for the application through Facebook TO DO
- RSSIA-12 As a user, I can register for the application through Gmail TO DO
- RSSIA-13 As a user, I can log into the application by entering email & password TO DO

+ Create issue

RSSIA Sprint 2 Add dates (4 issues) 0 0 0 Start sprint

- RSSIA-14 As a user, I can view my dashboard and can perform stock prediction and analysis TO DO
- RSSIA-15 As a user I can view the list of categorized products and their details TO DO
- RSSIA-16 As a user I can search through the product using keywords TO DO

Quickstart

Projects / RSSIA

Backlog

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Epic

Insights

RSSIA Sprint 3 Add dates (2 issues)

0 0 0 Start sprint

- RSSIA-17 As a user I can generate reports based on product sales TO DO
- RSSIA-19 As a user I can predict out of stock and less stock for a product TO DO

+ Create issue

RSSIA Sprint 4 Add dates (4 issues)

0 0 0 Start sprint

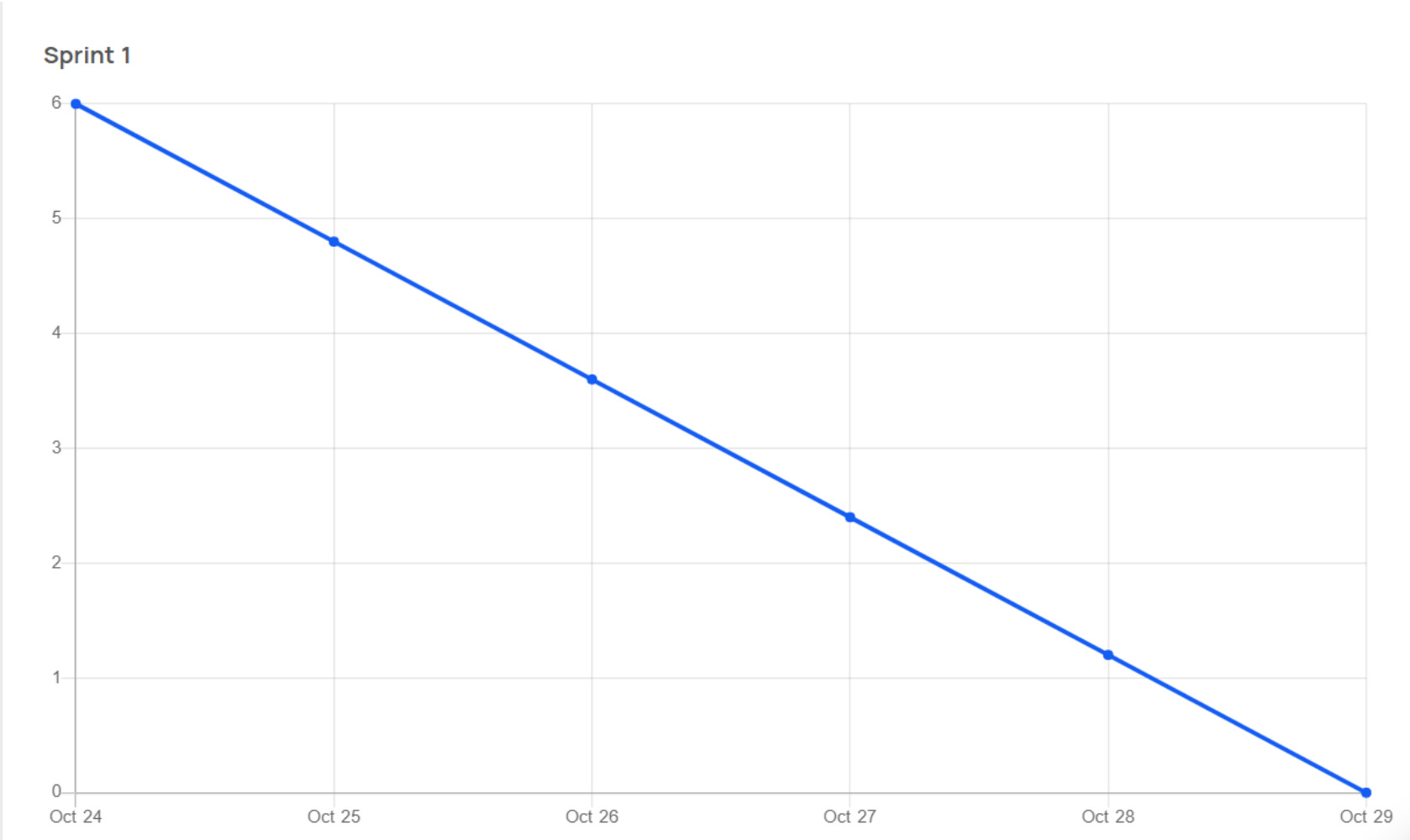
- RSSIA-20 As a user I can view notification for expired and out of stock products TO DO
- RSSIA-21 As a user I can reorder stocks based on predictions and notification TO DO
- RSSIA-23 As a user I can generate invoice calculating taxes, discount and calculate credits TO DO
- RSSIA-24 As a user I can provide discount based on credit points TO DO

+ Create issue

Quickstart

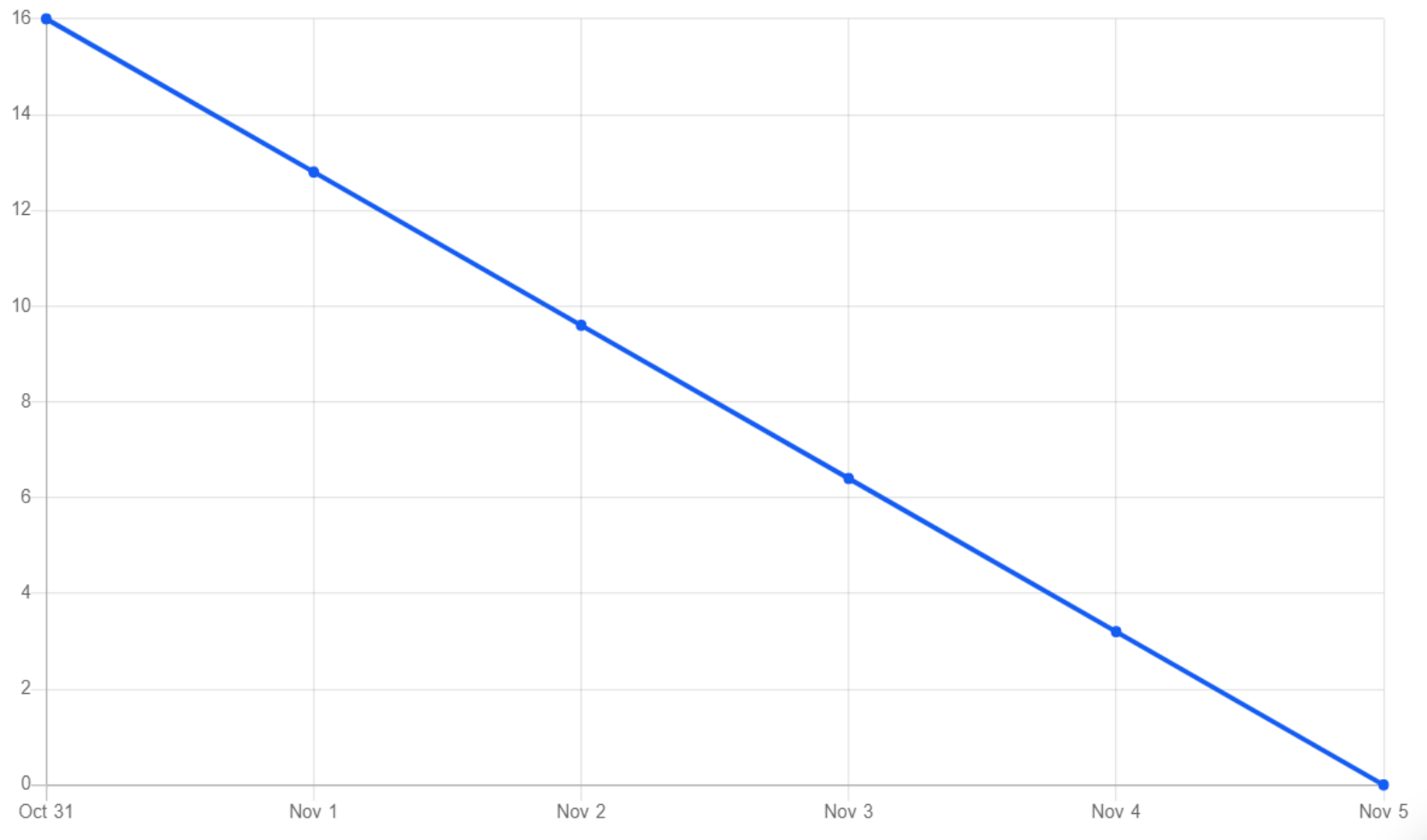
Estimated Effort:

Sprint - 1:



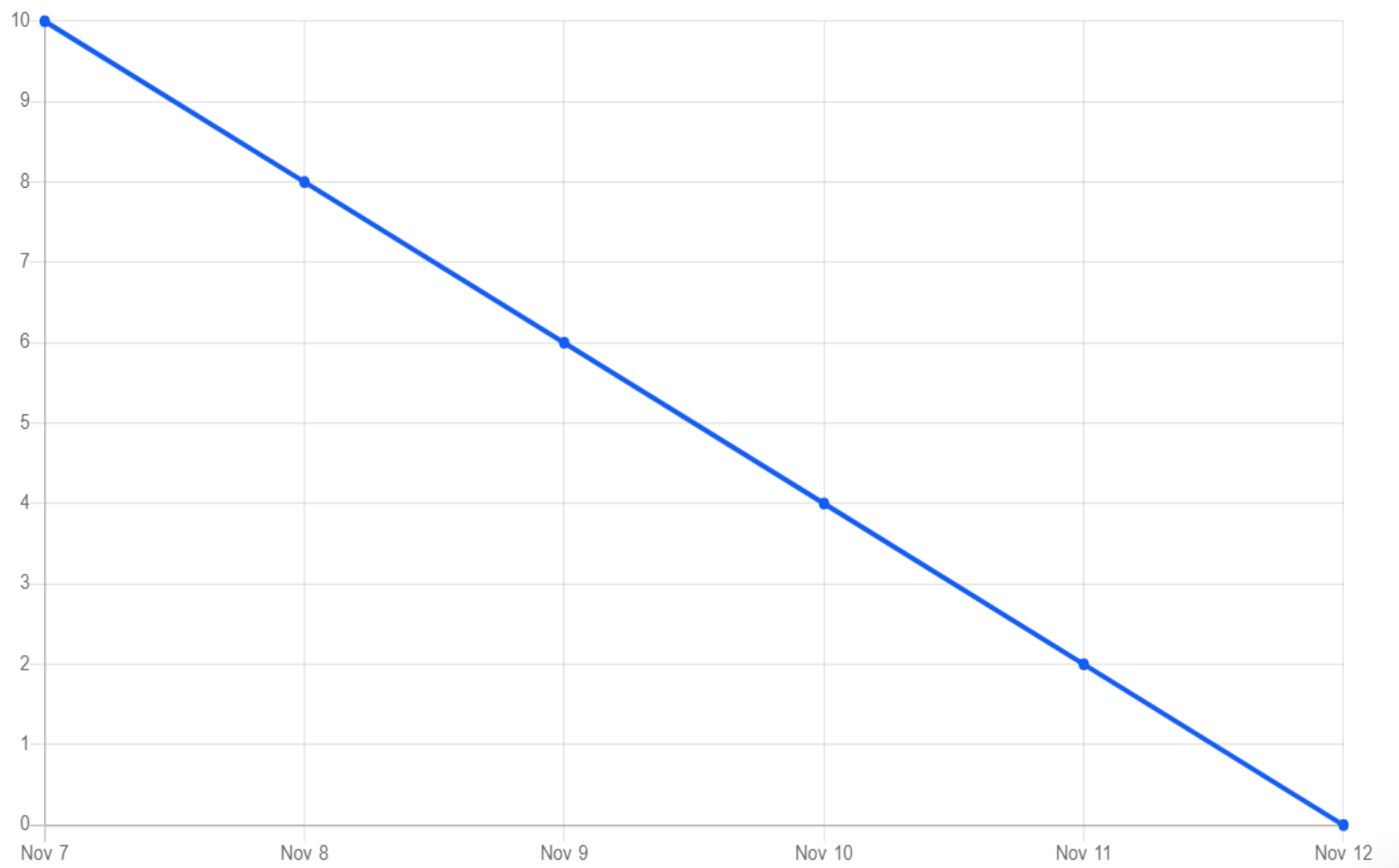
Sprint - 2:

Sprint 2



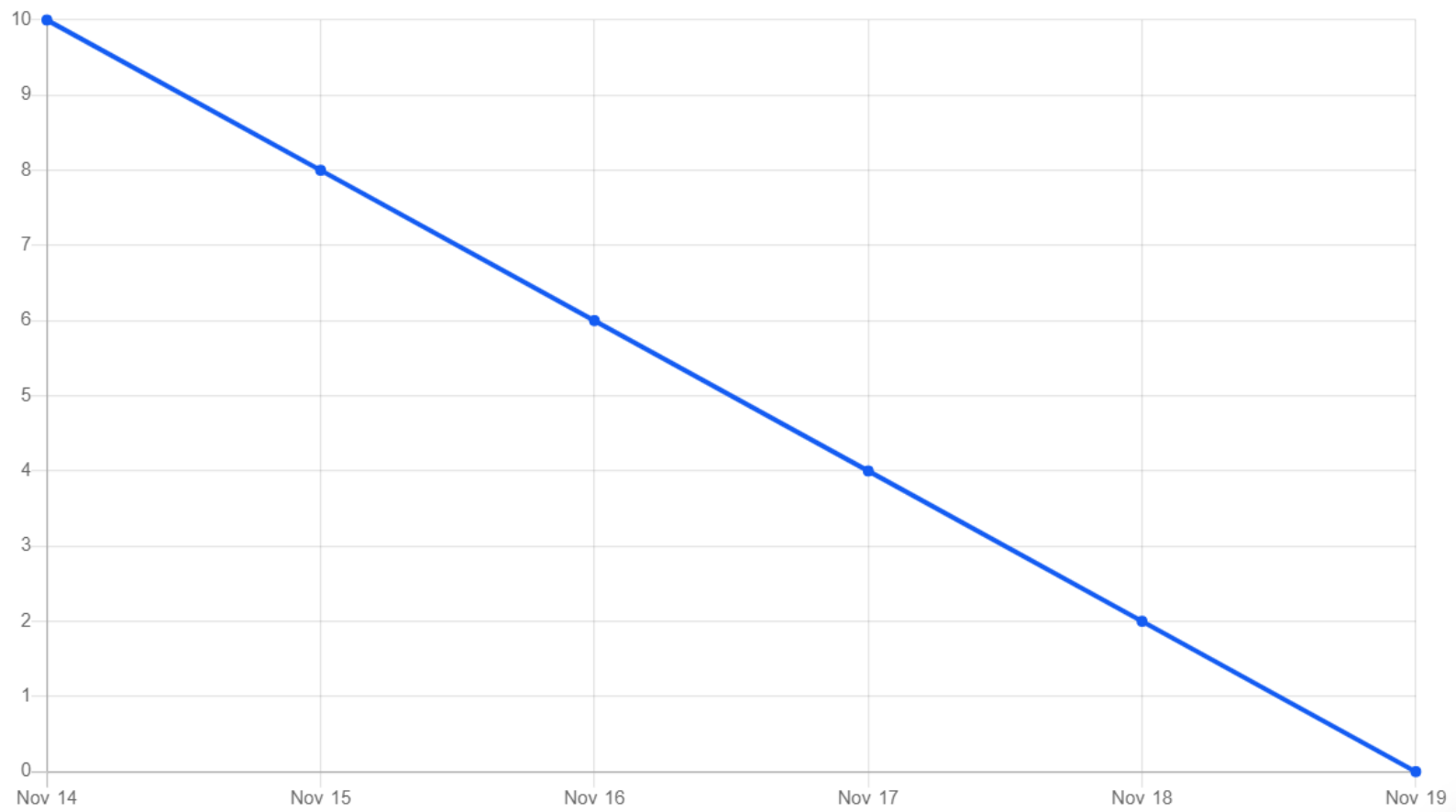
Sprint - 3:

Sprint 3

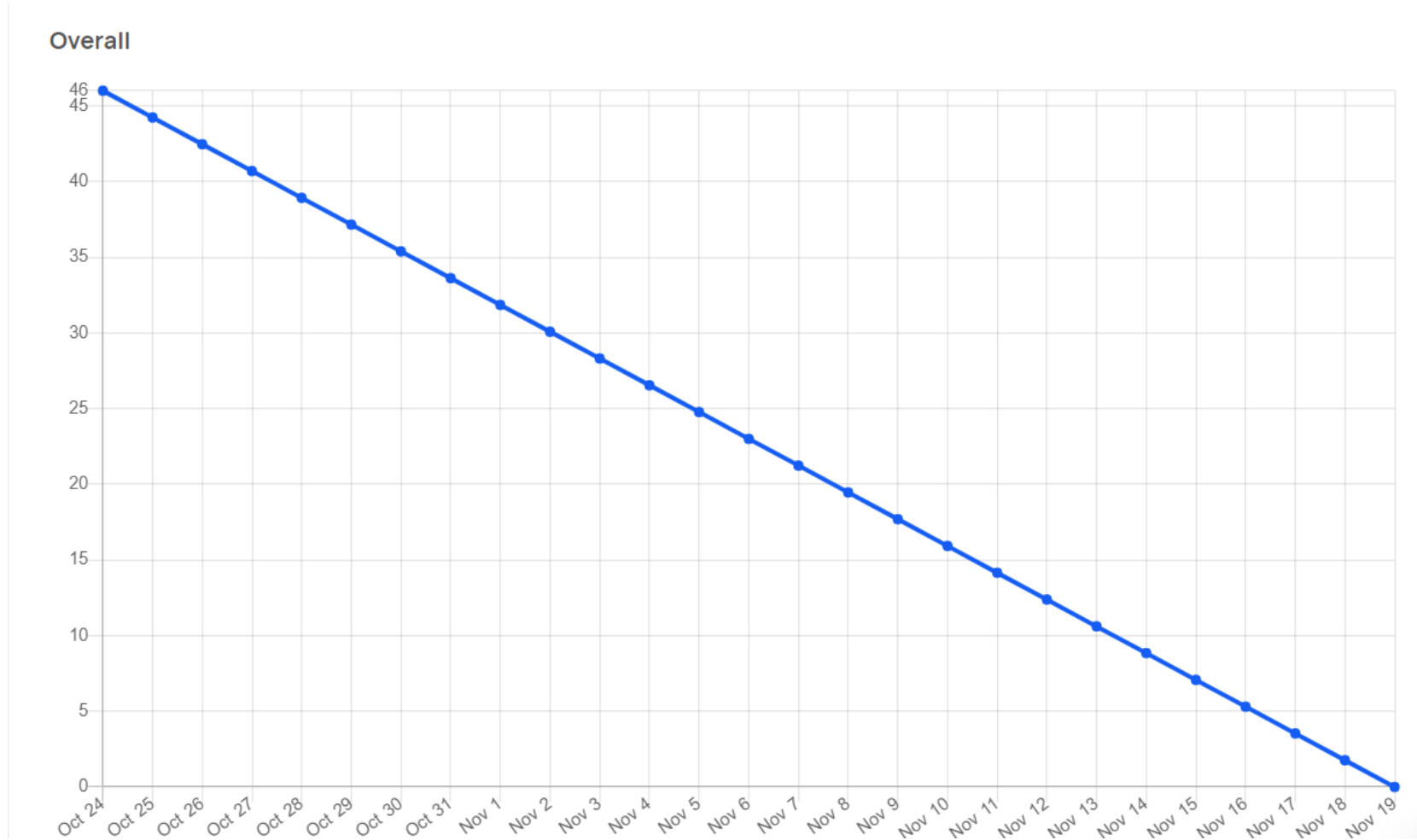


Sprint - 4:

Sprint 4



Overall burndown chart:



Milestones and Activities of Sprint:

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