

Project Planning Phase

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

Date	19 November 2022
Team ID	PNT2022TMID31193
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	Asliya, Anitha
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Asliya, Anitha
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Asliya, Anitha
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Asliya, Anitha
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Asliya, Anitha
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Asliya, Anitha, Keerthana, Geetha
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Asliya, Keerthana
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Anitha, Geetha, Keerthana
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Anitha, Geetha, Keerthana

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

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	25 Oct 2022	30 Oct 2022	6	30 Oct 2022
Sprint-2	16	6 Days	2 Nov 2022	08 Nov 2022	16	08 Nov 2022
Sprint-3	10	6 Days	08 Nov 2022	13 Nov 2022	10	13 Nov 2022
Sprint-4	14	6 Days	15 Nov 2022	20 Nov 2022	14	20 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)

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

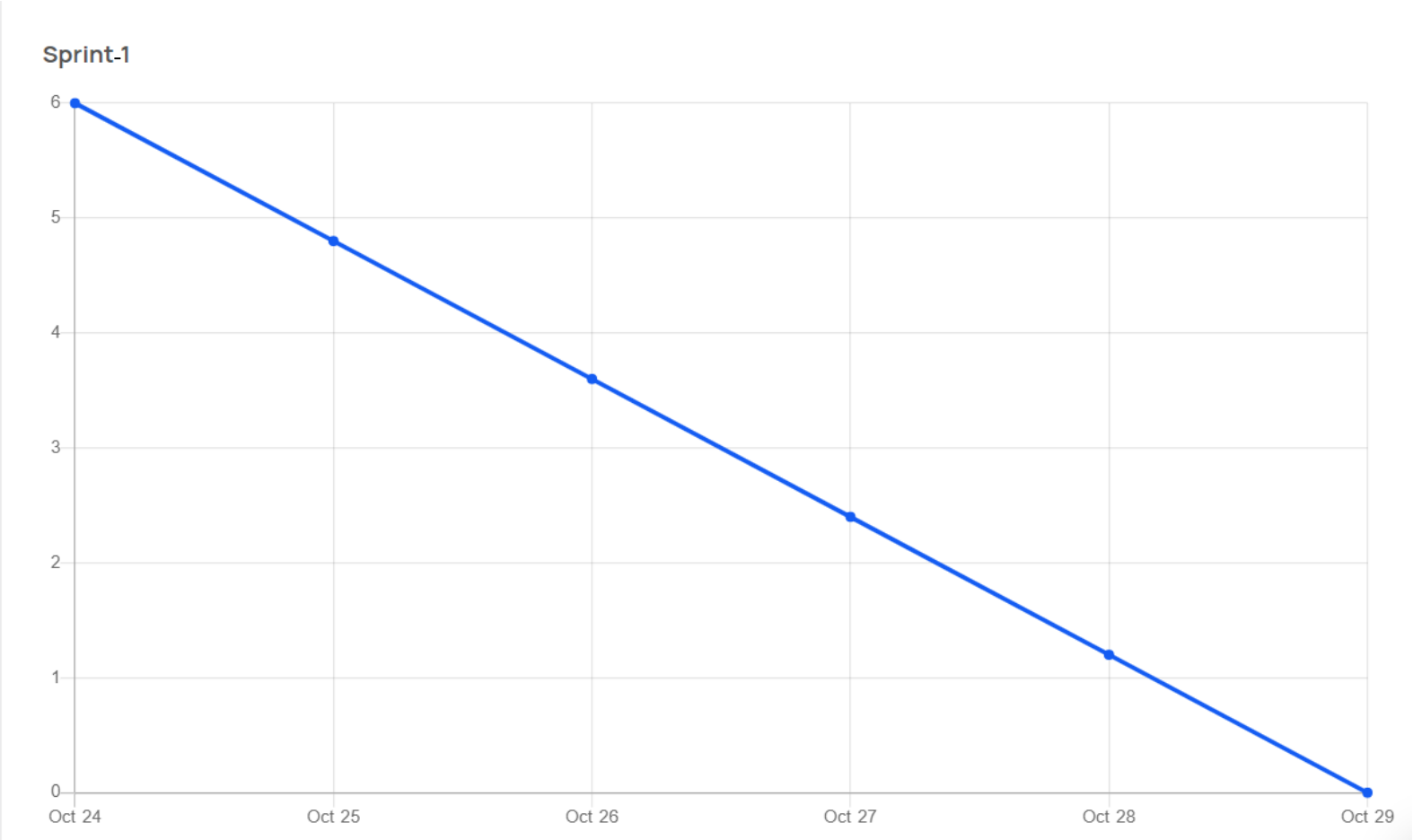
Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

Burndown Chart:

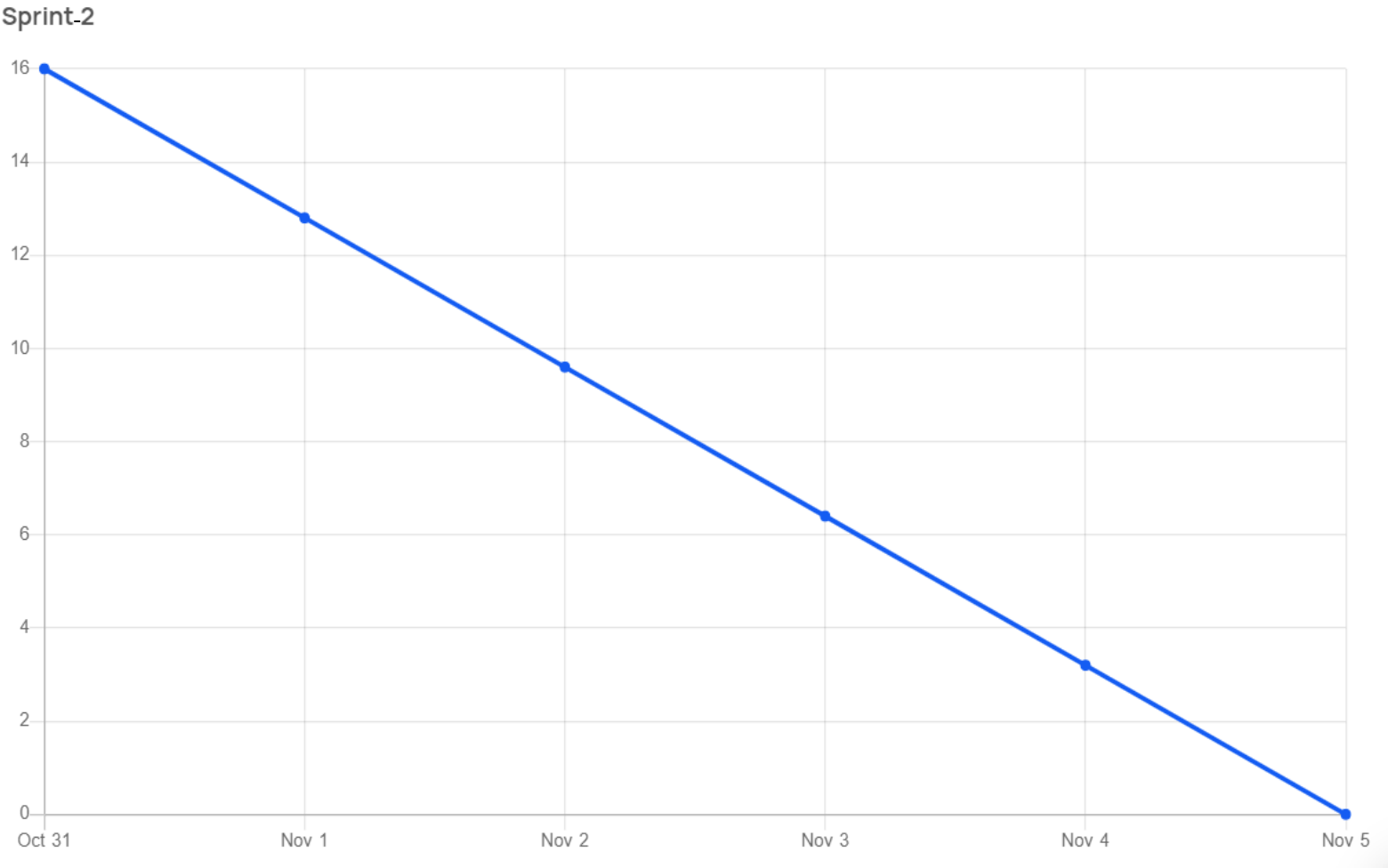
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

Estimated Effort:

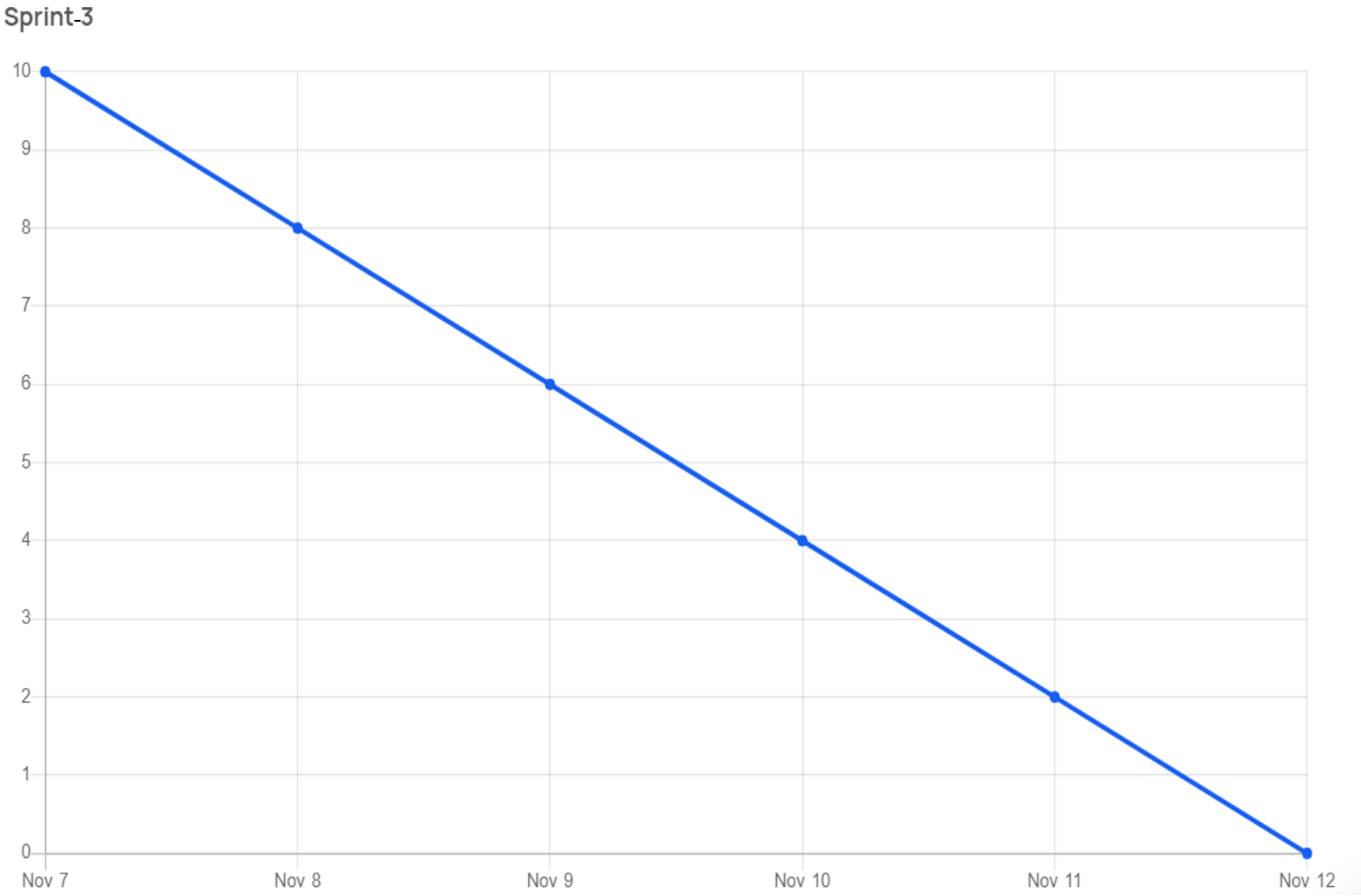
Sprint - 1:



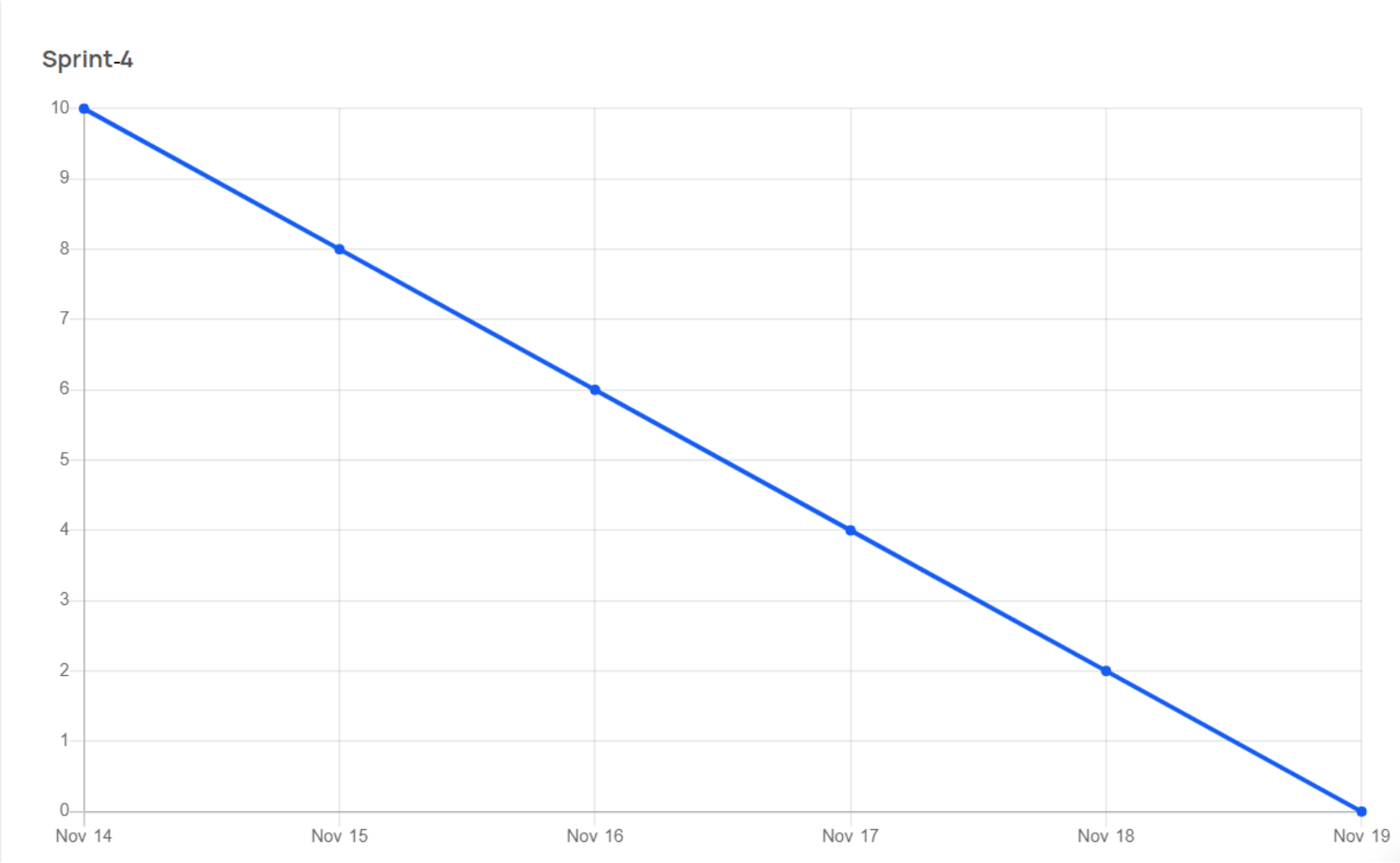
Sprint - 2:



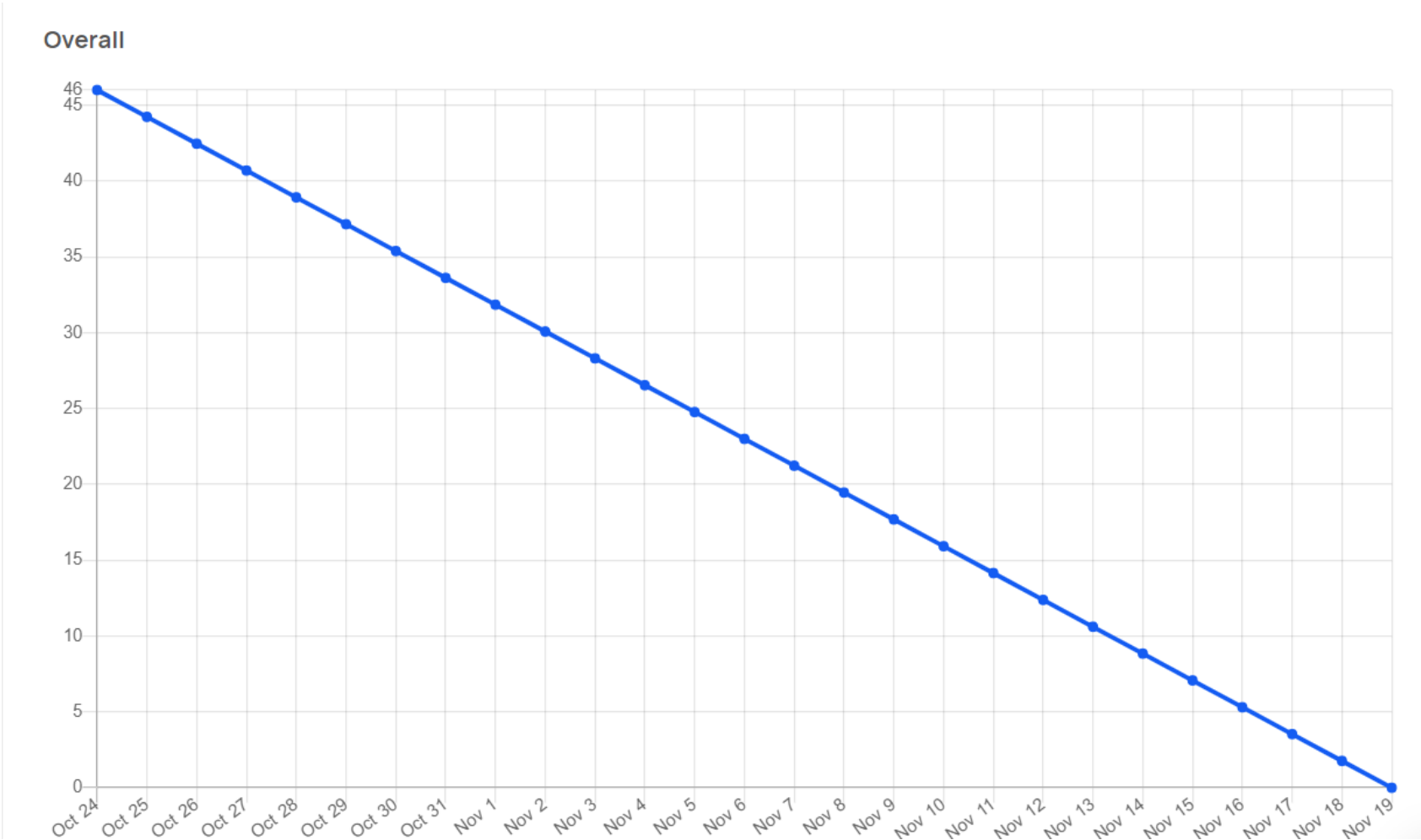
Sprint - 3:



Sprint - 4:



Overall burndown chart:



Project Planning Tool:

The screenshot displays the Jira Software interface for a project named 'AI Powered Image Classification System'. The top navigation bar includes links for 'Your work', 'Projects', 'Filters', 'Dashboards', 'People', and 'Apps', along with a 'Create' button and a search bar. The left sidebar shows the project's navigation menu with options like 'Roadmap', 'Backlog' (selected), 'Board', 'Code', 'Project pages', 'Add shortcut', and 'Project settings'. The main content area shows the 'Backlog' view with a list of five issues, each with a green status icon and a 'TO DO' label. The issues are:

- APICS-1 As a user, I can register for the application by entering my email, password, and confirming m...
- APICS-2 As a user, I will receive confirmation email once I have registered for the applicati
- APICS-3 As a user, I can register for the application through Facebook
- APICS-4 As a user, I can register for the application through Gmail
- APICS-5 As a user, I can log into the application by entering email & password

At the bottom right, there is a 'Quickstart' button. The interface also features a top banner with a promotional message: 'Does your team need more from Jira? Get a free trial of our Standard plan.'

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