

**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

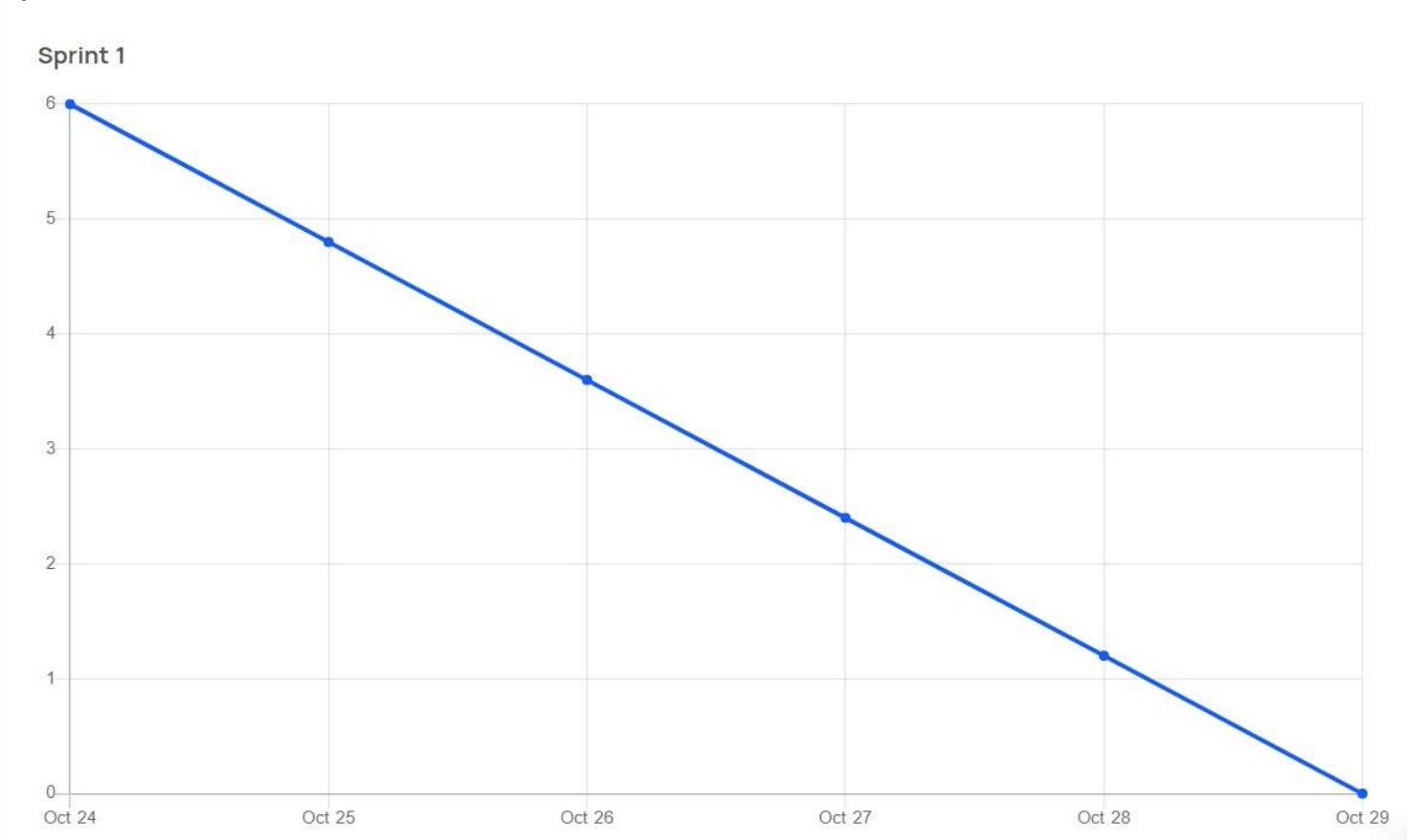
Total	46	24	$46/24=1.91$
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#### **Burndown Chart:**

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.

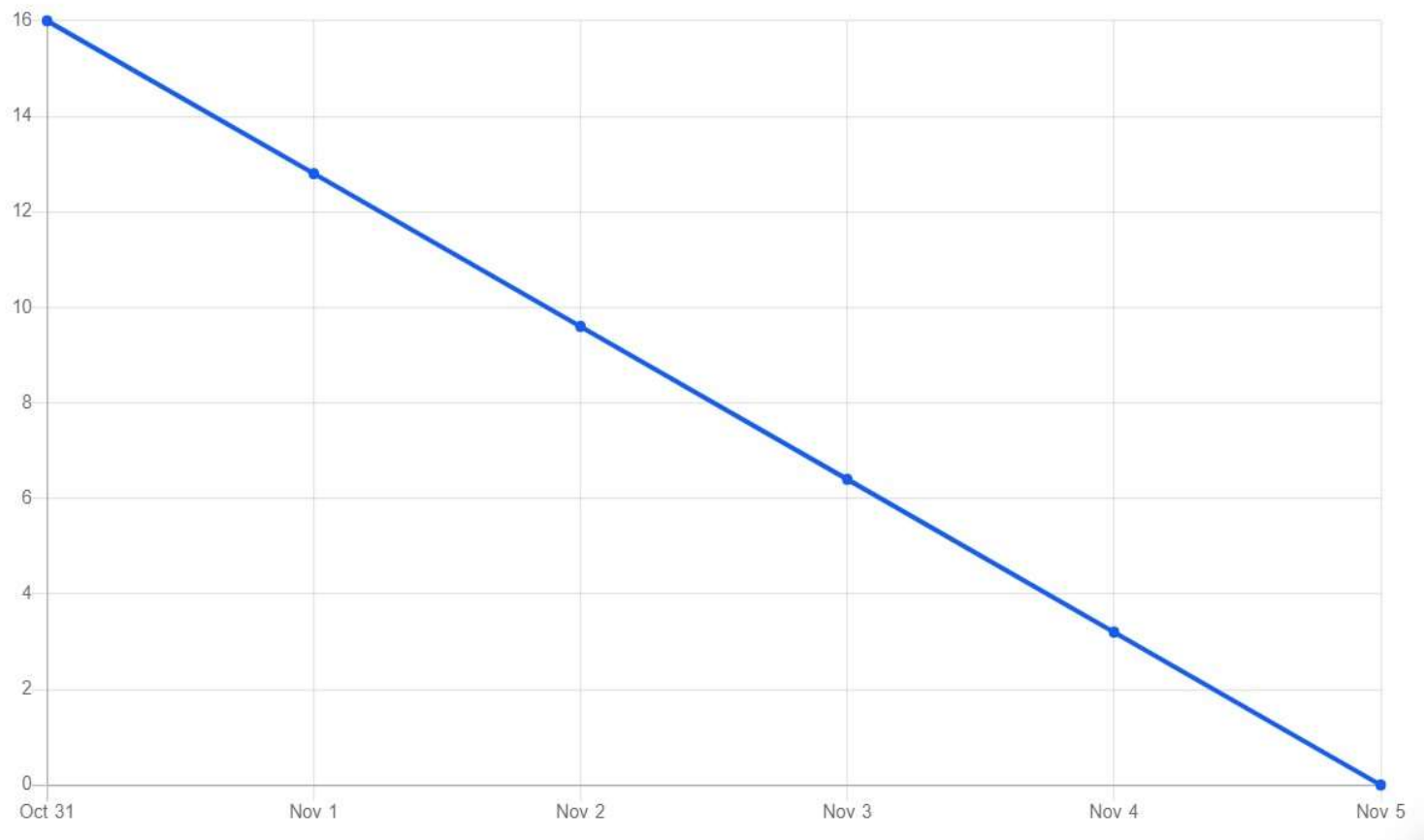
#### **Estimated Effort:**

Sprint - 1:

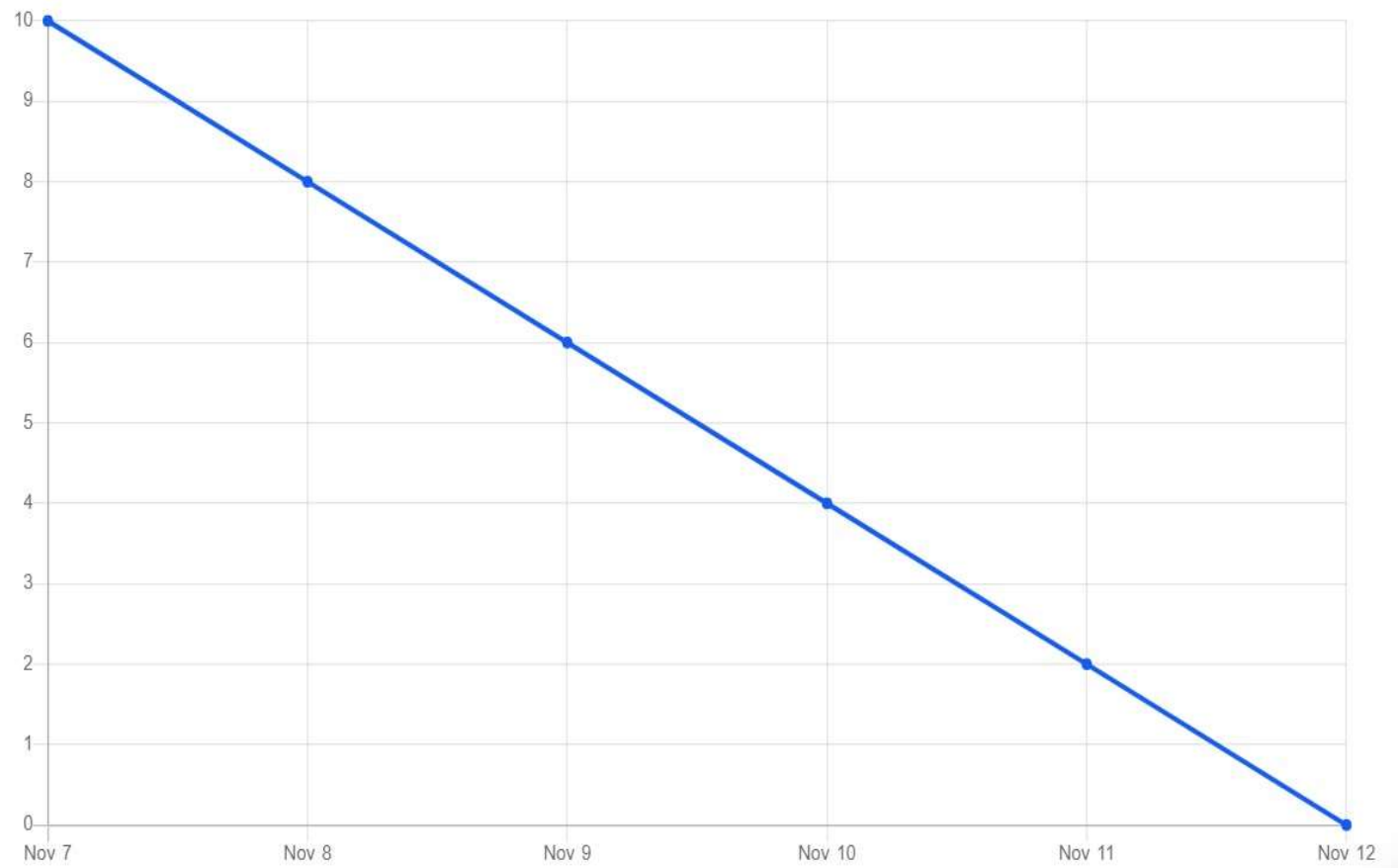


Sprint - 2:

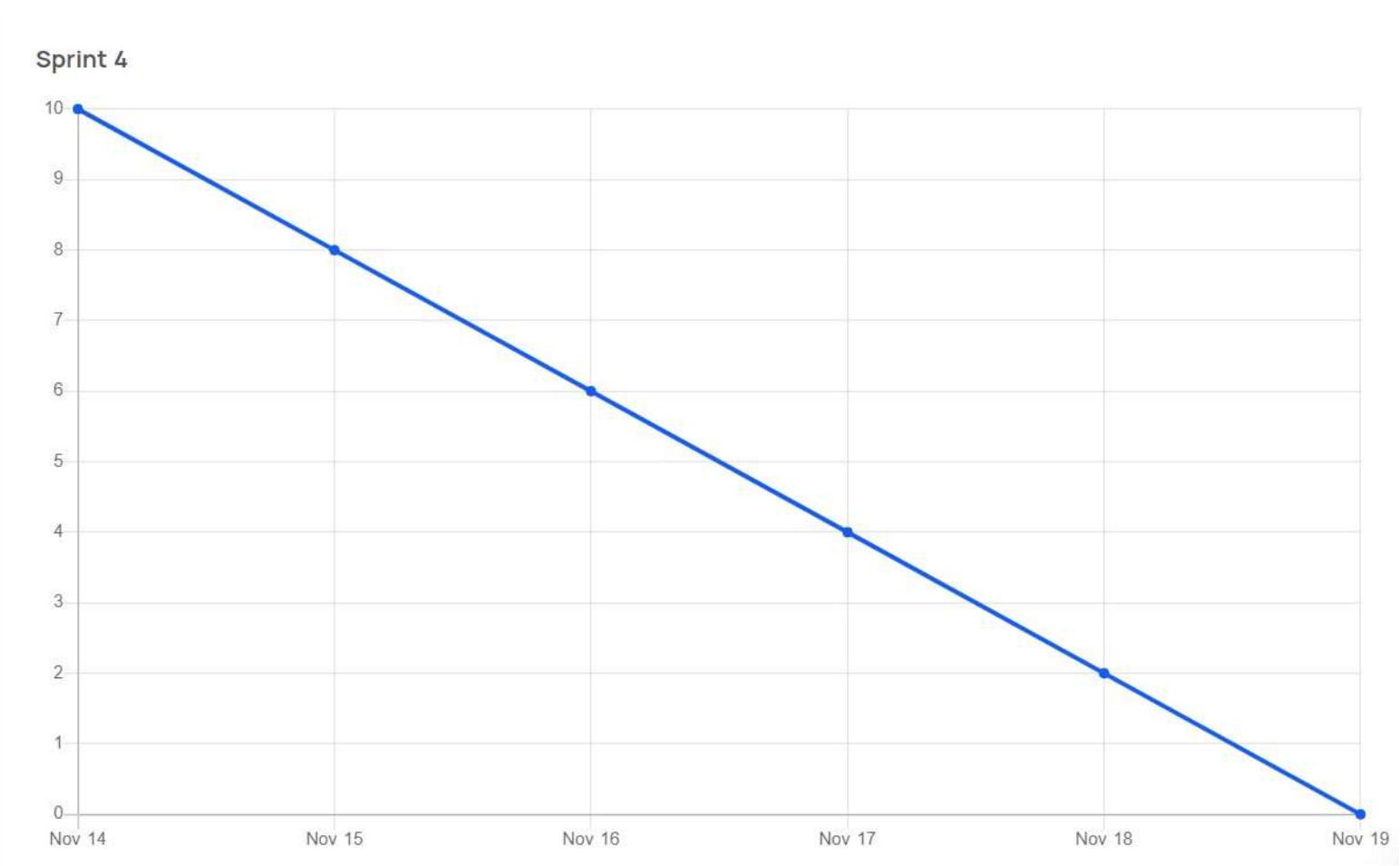
Sprint 2



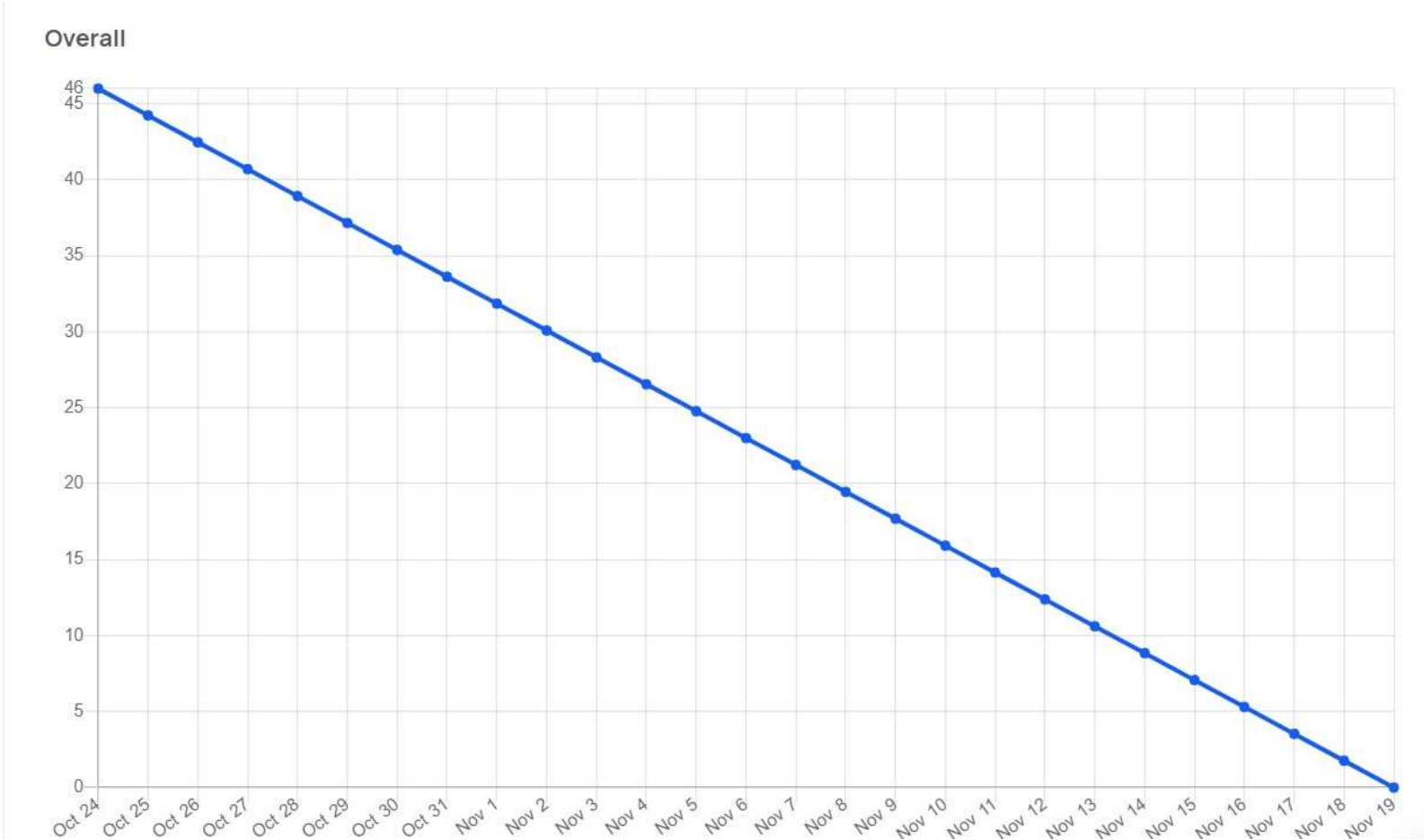
**Sprint - 3:**  
Sprint 3



Sprint - 4:



Overall burndown chart:



Project Planning Tool:



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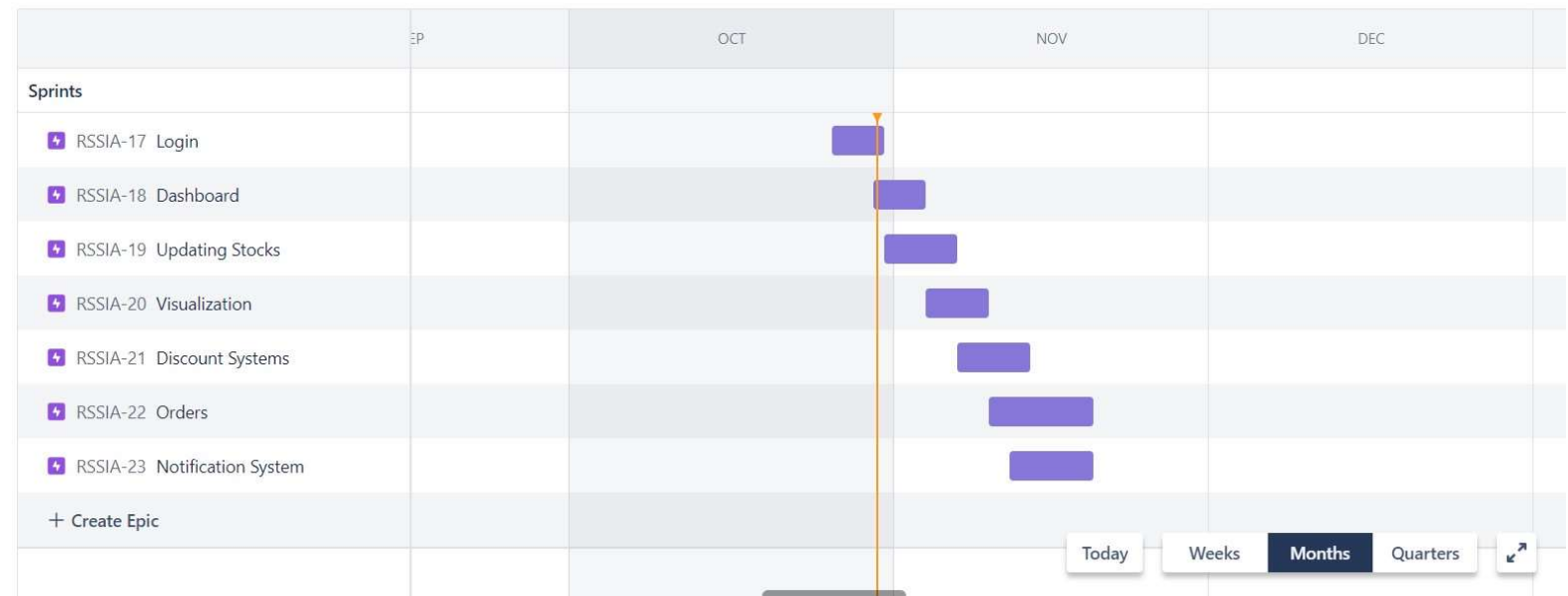
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# Backlog

Q

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Insights

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

RSSIA-1

As a user, I can register for the application by entering my email, password, and confirming my password.

TO DO ▾

RSSIA-2

As a user, I will receive confirmation email once I have registered for the application

TO DO ▾

RSSIA-3

As a user, I can register for the application through Gmail

TO DO ▾

RSSIA-5

As a user, I can register for the application through Facebook

TO DO ▾

RSSIA-6

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-7

As a user, I can view my dashboard and can perform stock prediction and analysis

TO DO ▾

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M S J

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Insights

▼ RSSIA Sprint 2

Add dates

(4 issues)

0 0 0

Start sprint

...

RSSIA-7

As a user, I can view my dashboard and can perform stock prediction and analysis

TO DO ▾

RSSIA-8

As a user I can view the list of categorized products and their details

TO DO ▾

RSSIA-9

As a user I can search through the product using barcode

TO DO ▾

RSSIA-10

As a user I can add/delete products

TO DO ▾

+ Create issue

▼ RSSIA Sprint 3

Add dates

(2 issues)

0 0 0

Start sprint

...

RSSIA-11

As a user I can generate reports based on product sales

TO DO ▾

RSSIA-12

As a user I can predict out of stock and less stock for a product

TO DO ▾

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Insights

RSSIA Sprint 3

Add dates

(2 issues)

0 0 0

Start sprint

RSSIA-11

As a user I can generate reports based on product sales

TO DO

RSSIA-12

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-13

As a user I can view notification for expired and out of stock products

TO DO

RSSIA-14

As a user I can reorder stocks based on predictions and notification

TO DO

RSSIA-15

As a user I can generate invoice calculating taxes, discount and calculate credits

TO DO

RSSIA-16

As a user I can provide discount based on credit points

TO DO

**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>