

## Project Planning Phase

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

Date	October 2022
Team ID	PNT2022TMID17628
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	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Maheshwaran K Nagarajan B Pavithra A Rithika V

Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Maheshwaran K Nagarajan B Pavithra A Rithika V.
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Maheshwaran K Nagarajan B Pavithra A Rithika V

Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Maheshwara n K Nagarajan B Pavithra A Rithika V
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Maheshwaran K Nagarajan B Pavithra A Rithika V

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	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Maheshwaran K Nagarajan B Pavithra A Rithika V

Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Maheshwaran K Nagarajan B Pavithra A Rithika V
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Maheshwaran K Nagarajan B Pavithra A Rithika V

### 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)

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

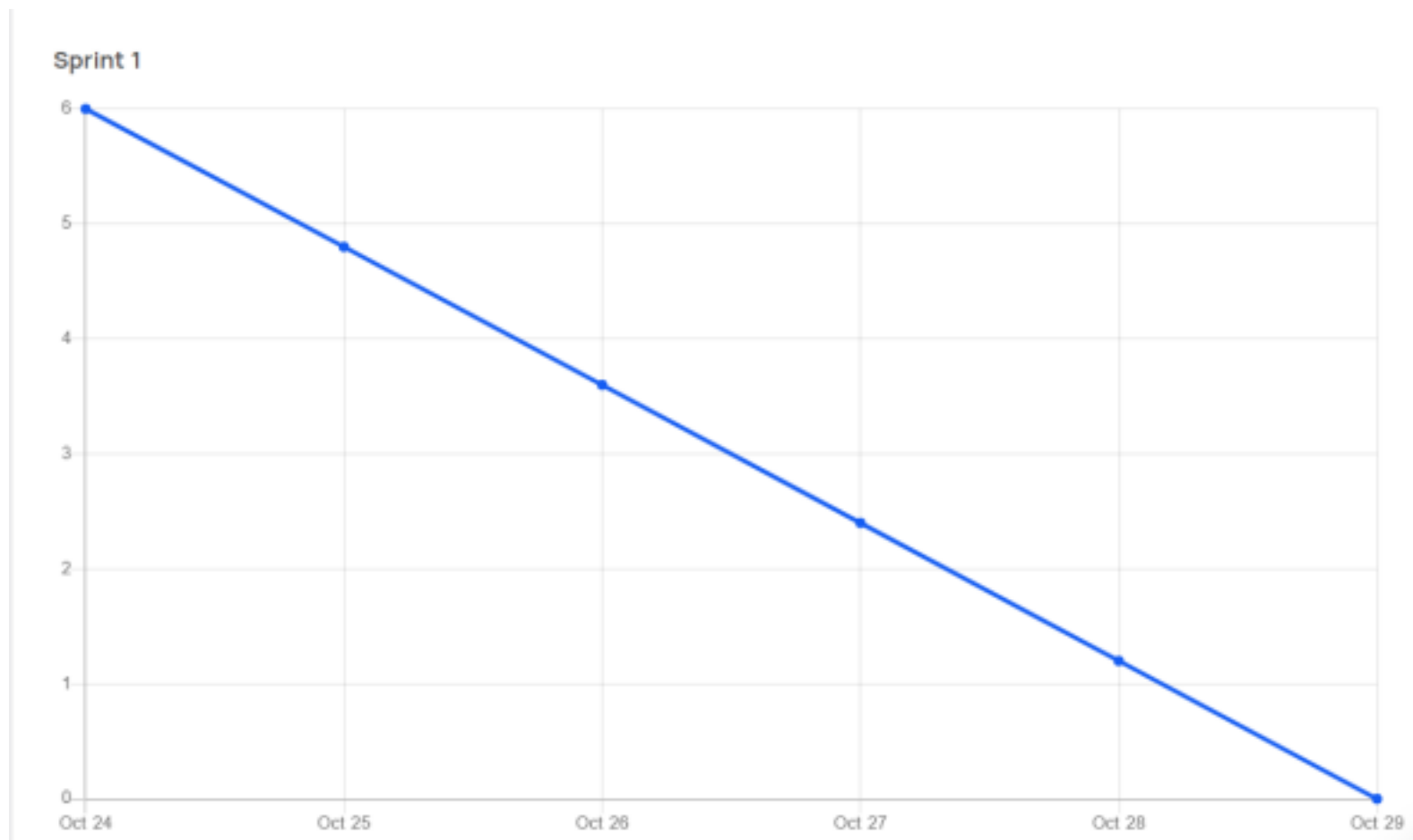
Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

### 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.

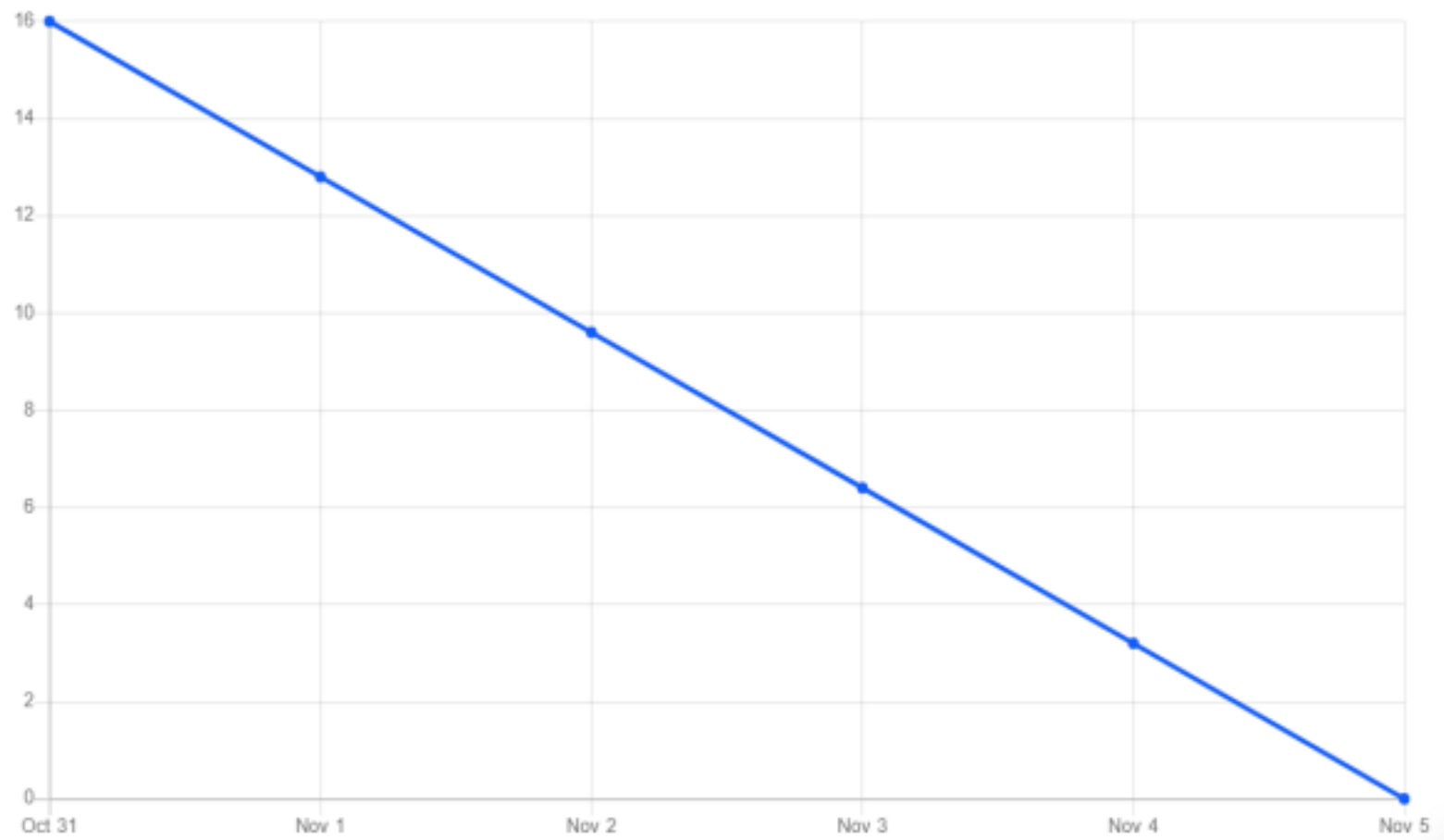
### Estimated Effort:

#### Sprint - 1:



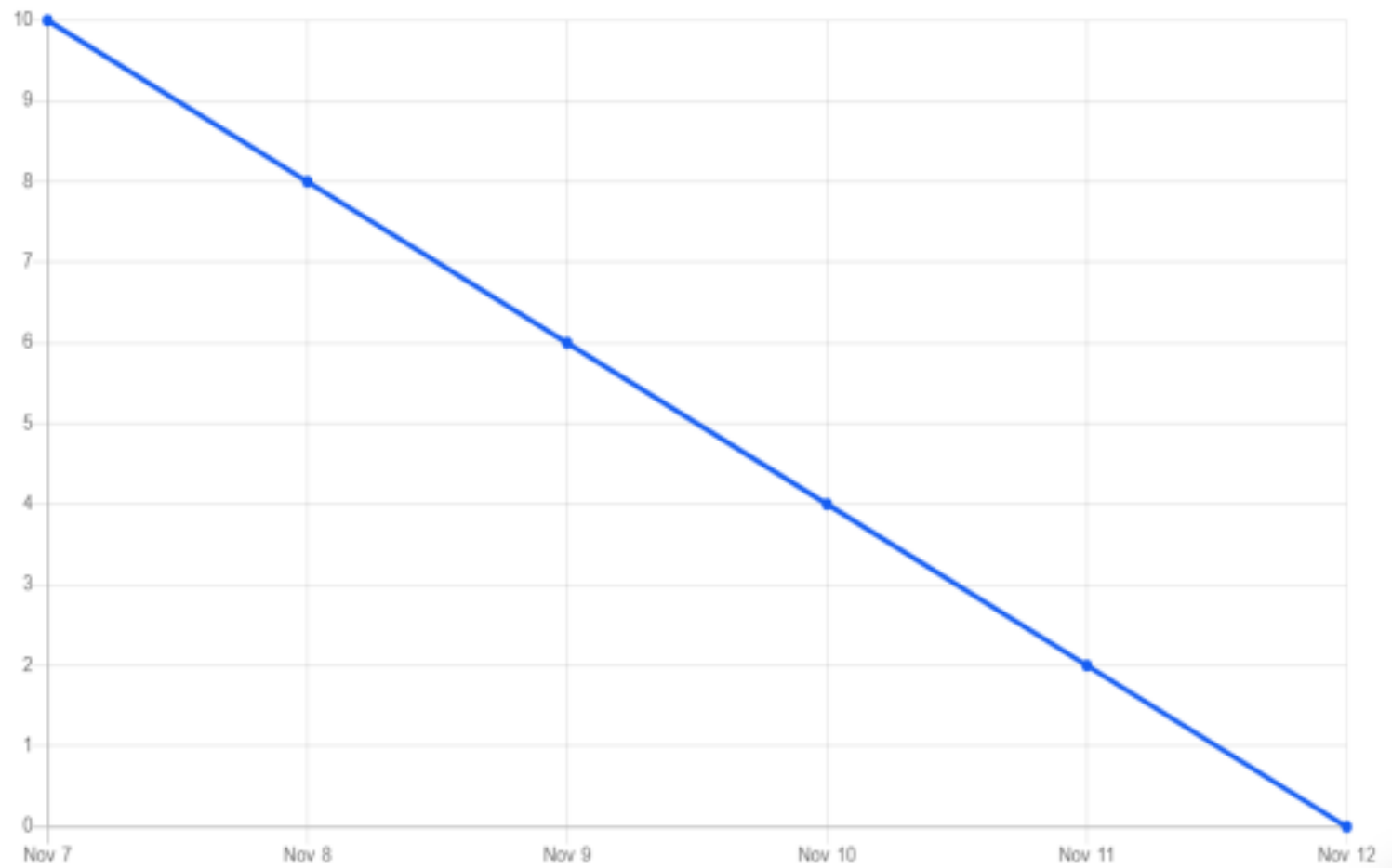
## Sprint - 2:

Sprint 2



### Sprint - 3:

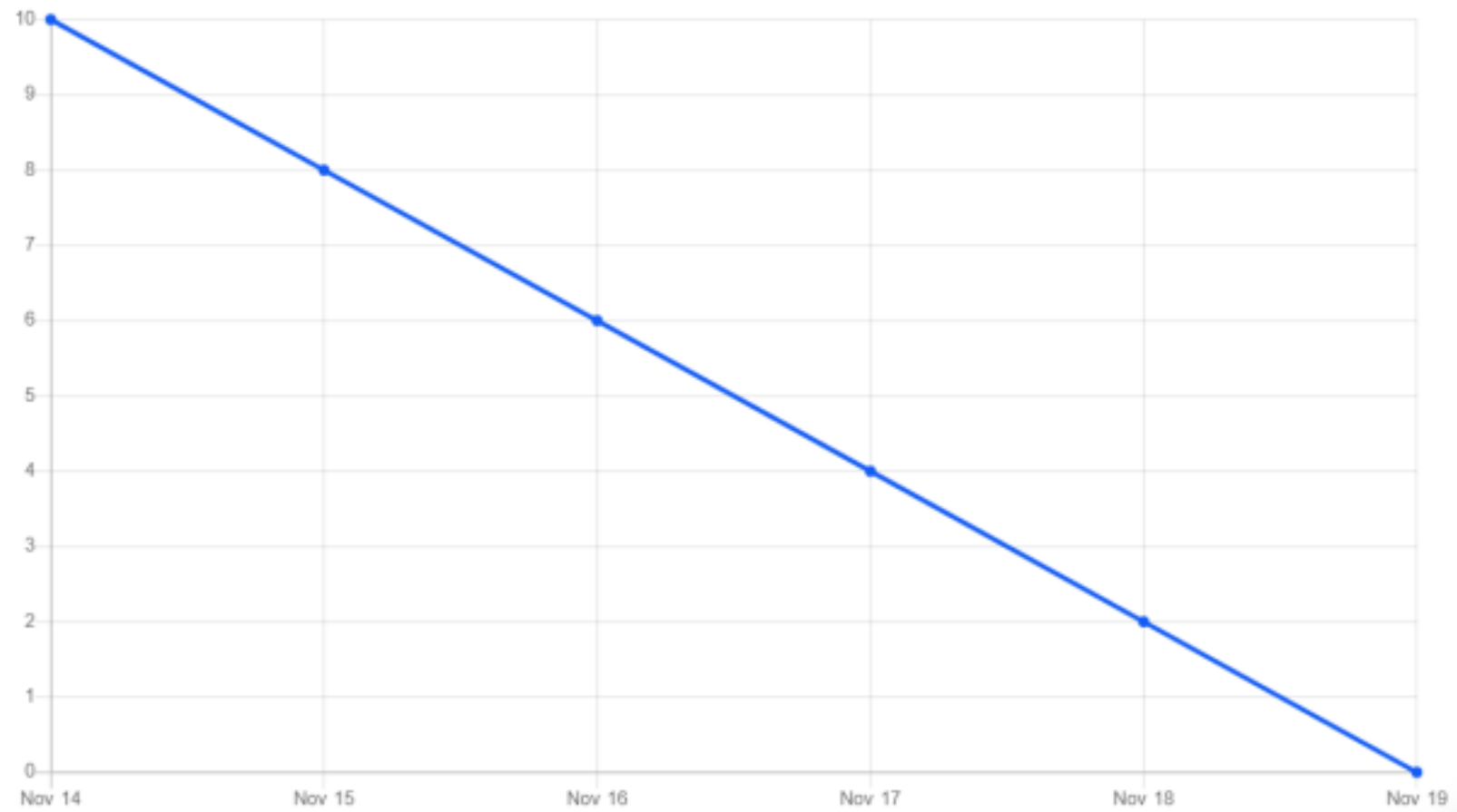
Sprint 3



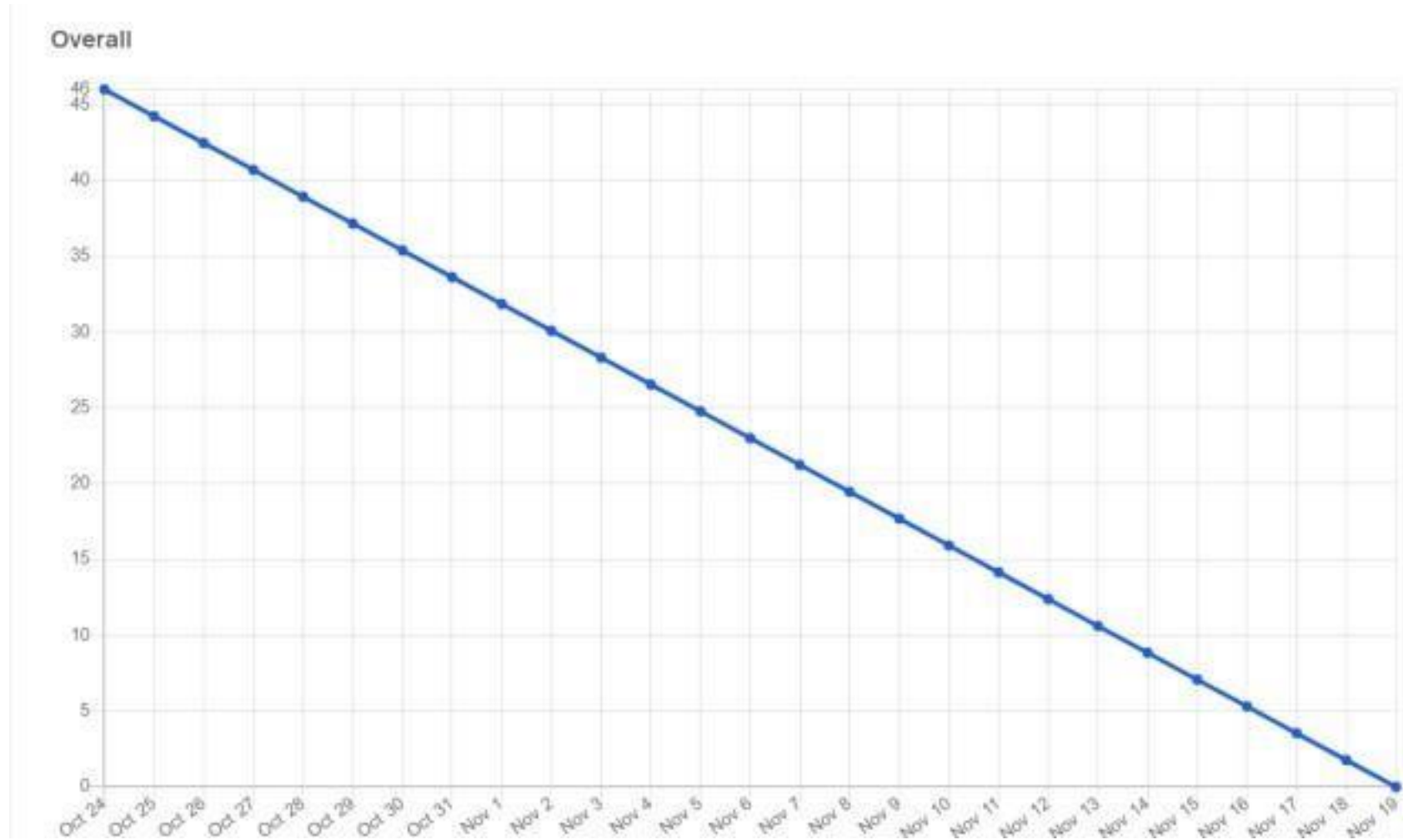


## Sprint - 4:

Sprint 4



Overall burndown chart:



## Project Planning Tool:

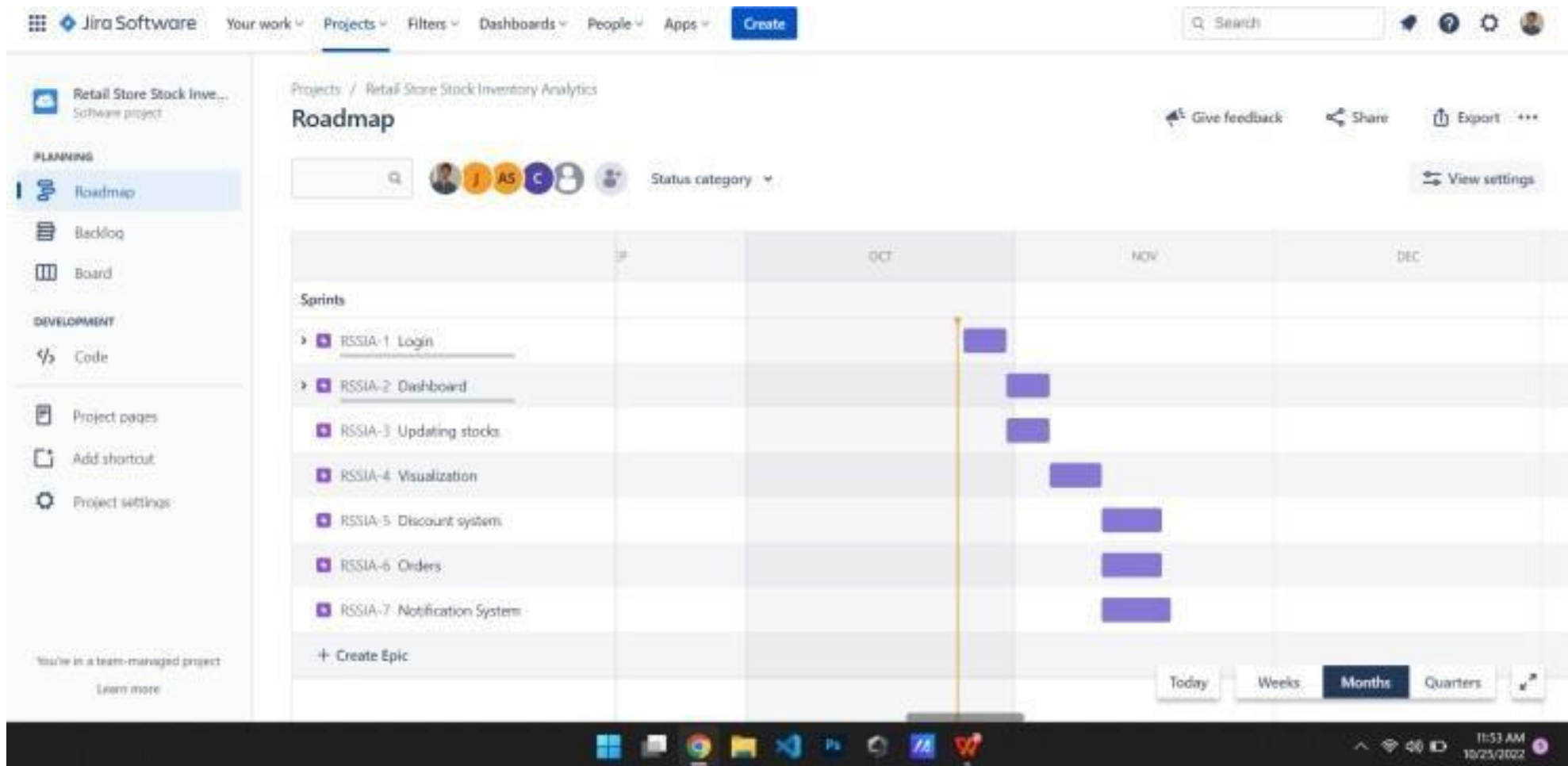
The screenshot displays the Jira Software interface for a project named "Retail Store Stock Inventory Analytics". The top navigation bar includes "Jira Software", "Your work", "Projects", "Filters", "Dashboards", "People", "Apps", and a "Create" button. A search bar is located on the right. A banner at the top asks, "Does your team need more from Jira? Get a free trial of our Standard plan."

The left sidebar shows the project name and a "PLANNING" section with options for "Roadmap" and "Backlog" (which is selected). Below this is a "DEVELOPMENT" section with "Code". At the bottom of the sidebar, there are links for "Project pages", "Add shortcut", and "Project settings". A note at the bottom of the sidebar states, "You're in a team-managed project. Learn more."

The main content area is titled "Backlog" and shows a search bar and a filter dropdown set to "Epic". It displays two sprints:

- RSSIA Sprint 1** (Add dates, 3 issues):
  - RSSIA-8: As a user, I can register for the application by entering my email, password, and confirming my password. **LOGIN** (Status: TO DO, Assignee: C)
  - RSSIA-9: As a user, I will receive confirmation email once I have registered for the application. **LOGIN** (Status: TO DO, Assignee: J)
  - RSSIA-12: As a user, I can log into the application by entering email & password. **LOGIN** (Status: TO DO, Assignee: AS)
- RSSIA Sprint 2** (Add dates, 2 issues):
  - RSSIA-13: As a user, I can view my dashboard and can perform stock prediction and analysis. **DASHBOARD** (Status: TO DO, Assignee: J)
  - RSSIA-14: As a user I can view the list of categorized products and their details. **DASHBOARD** (Status: TO DO, Assignee: J)

The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating the time is 11:49 AM on 10/25/2022.



### 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>