

Project Planning Phase

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

Date	3 November 2022
Team ID	PNT2022TMID16423
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	A Bavin Sanjeev, K Gokulakannan
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	P Ajith Kumar, V J Arun Gowtham
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	A Bavin Sanjeev, K Gokulakannan
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	P Ajith Kumar, V J Arun Gowtham
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	A Bavin Sanjeev, K Gokulakannan

Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	A Bavin Sanjeev, K Gokulakannan P Ajith Kumar, V J Arun Gowtham
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	P Ajith Kumar, V J Arun Gowtham
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	A Bavin Sanjeev, K Gokulakannan
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	P Ajith Kumar, V J Arun Gowtham

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	A Bavin Sanjeev, K Gokulakannan
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	P Ajith Kumar, V J Arun Gowtham
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	A Bavin Sanjeev, K Gokulakannan
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	P Ajith Kumar, V J Arun Gowtham
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate	4	High	A Bavin Sanjeev,

			credits			K Gokulakannan
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	P Ajith Kumar, V J Arun Gowtham

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:

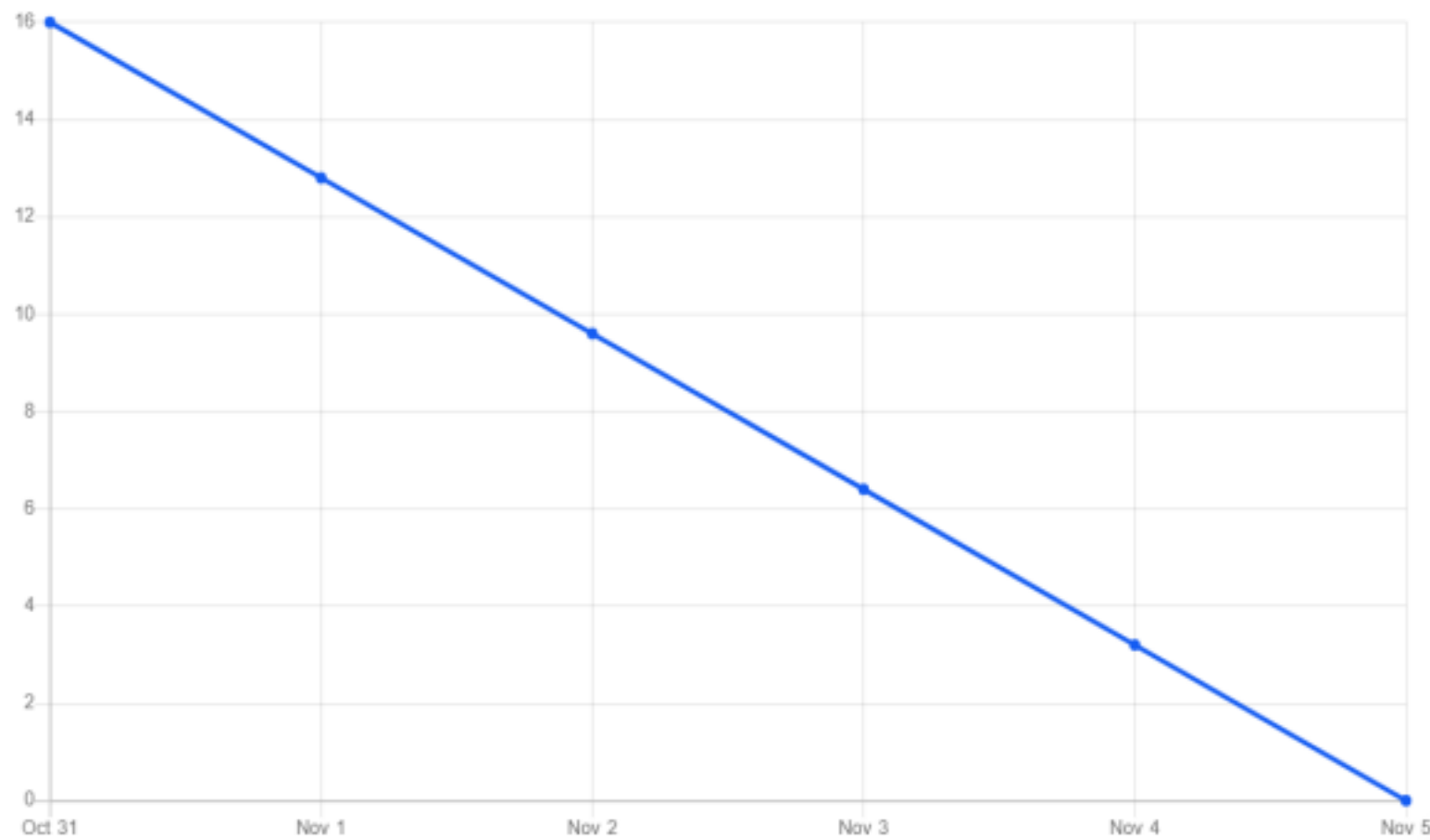
Sprint - 1:

Sprint 1



Sprint - 2:

Sprint 2



Sprint - 3:

Sprint 3



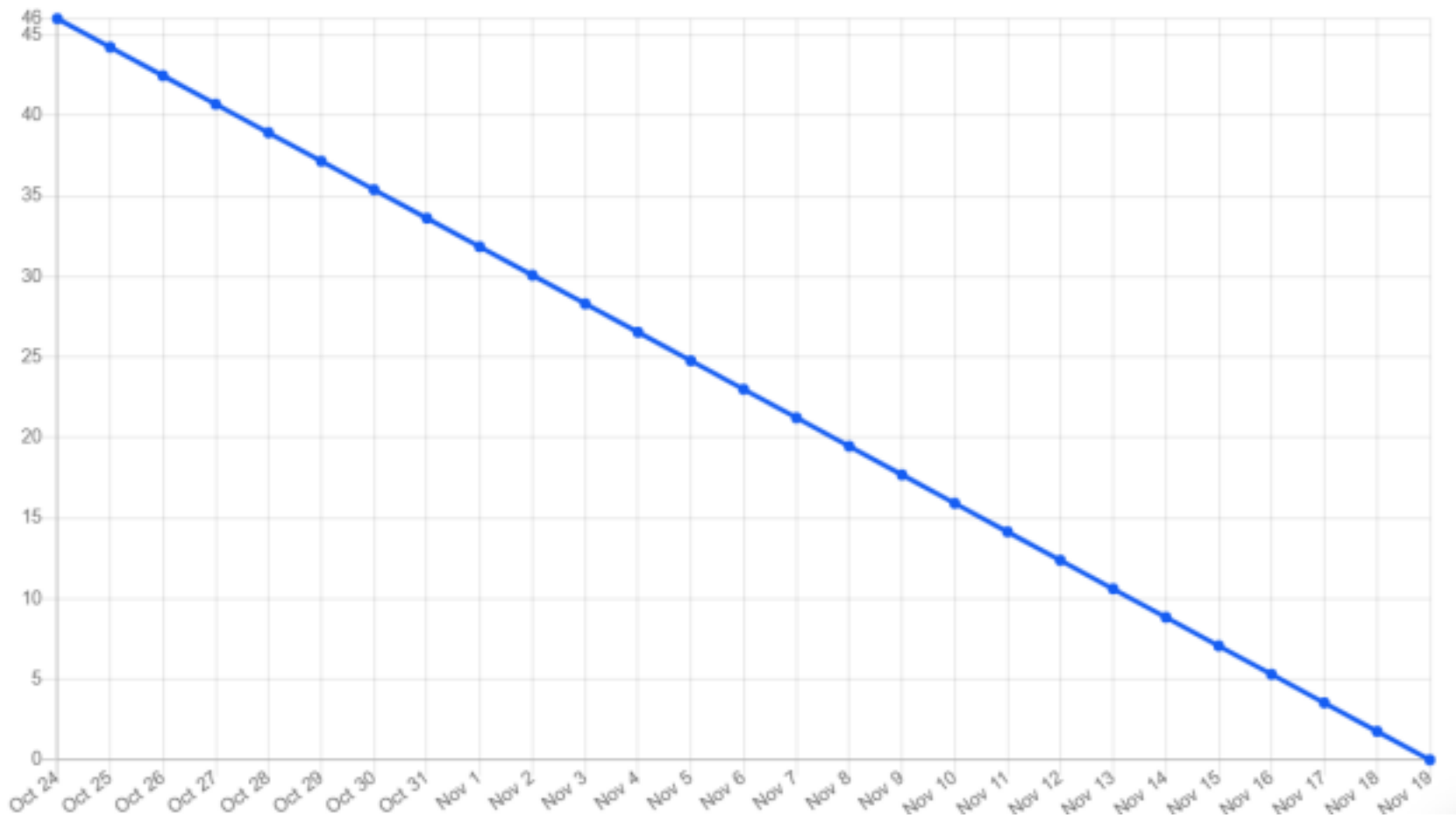
Sprint - 4:

Sprint 4



Overall burndown chart:

Overall



Project Planning Tool:



Retail Store Stock Inve...
Software project

PLANNING



Roadmap



Backlog



Board

DEVELOPMENT



Code



Project pages



Add shortcut



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Projects / Retail Store Stock Inventory Analytics

Roadmap

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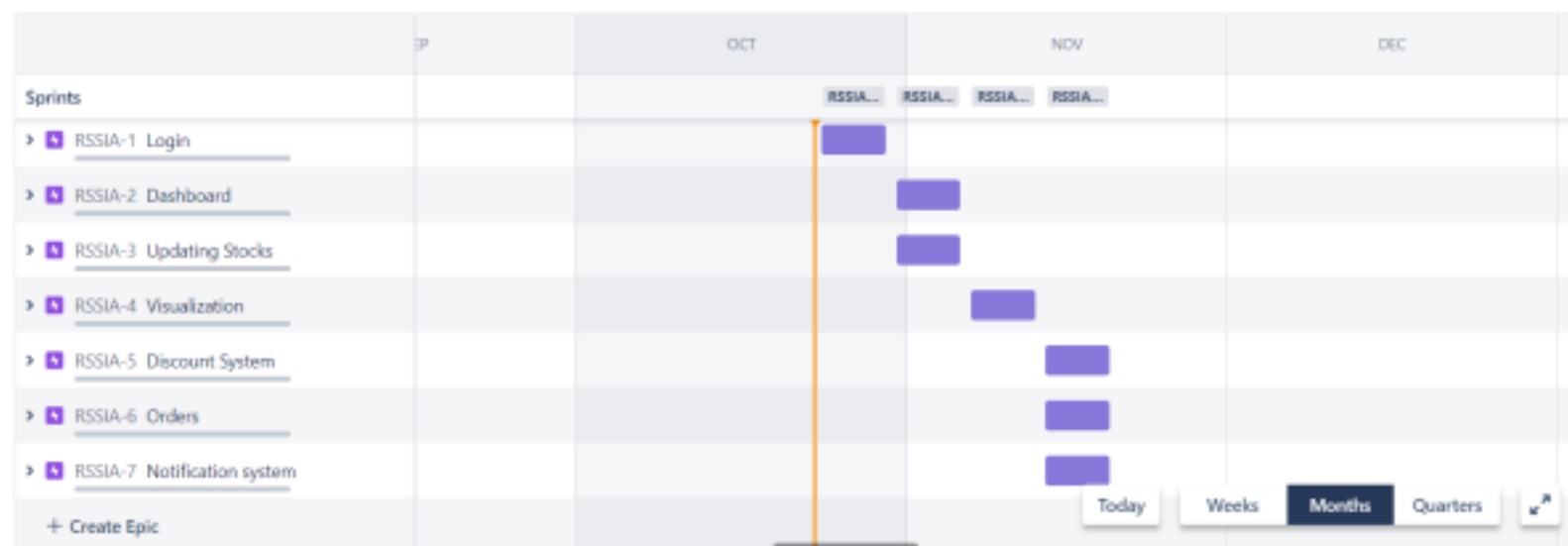
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Software project

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DEVELOPMENT

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Project pages
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Project settings

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Projects / Retail Store Stock Inventory Analytics

Backlog

Epic ▾

Insights

RSSIA Sprint 1 24 Oct – 29 Oct (3 issues)

0 0 0
Start sprint

RSSIA-8 As a user, I can register for the application by entering my email, password, and confirming my password. LOGIN

TO DO ▾

RSSIA-9 As a user, I will receive confirmation email once I have registered for the application LOGIN

TO DO ▾

RSSIA-10 As a user, I can log into the application by entering email & password LOGIN

TO DO ▾

+ Create issue

RSSIA Sprint 2 31 Oct – 5 Nov (4 issues)

0 0 0
Start sprint

RSSIA-11 As a user, I can view my dashboard and can perform stock prediction and analysis DASHBOARD

TO DO ▾

RSSIA-12 As a user I can view the list of categorized products and their details DASHBOARD

TO DO ▾

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