

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID09334
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	Rithanya S, Meenakshi S
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Rithanya S, Meenakshi S
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Rithanya S, Meenakshi S
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Rithanya S, Meenakshi S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Rithanya S, Meenakshi S
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Preetha P, Pavithra P, Meenakshi S
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Rithanya S, Preetha P
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Rithanya S, Preetha P
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Meenakshi S, Pavithra P

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

#### 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)

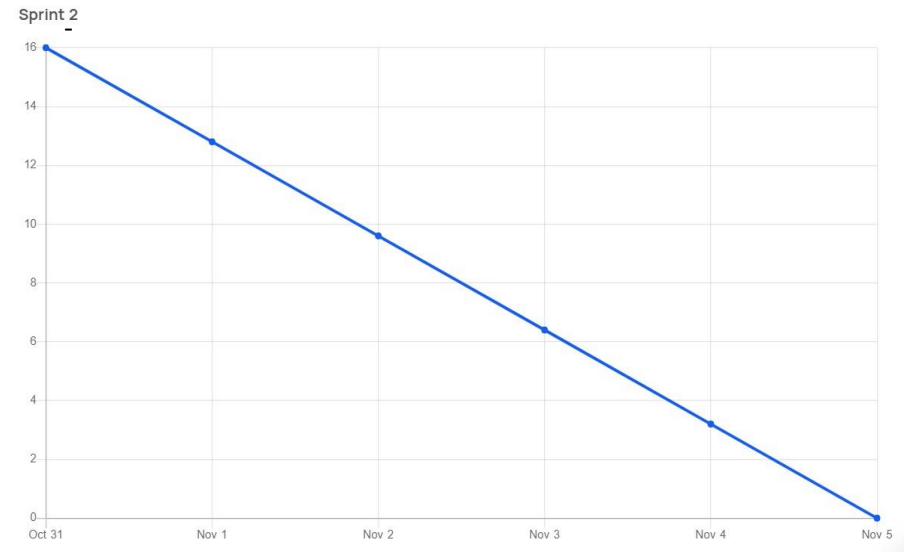
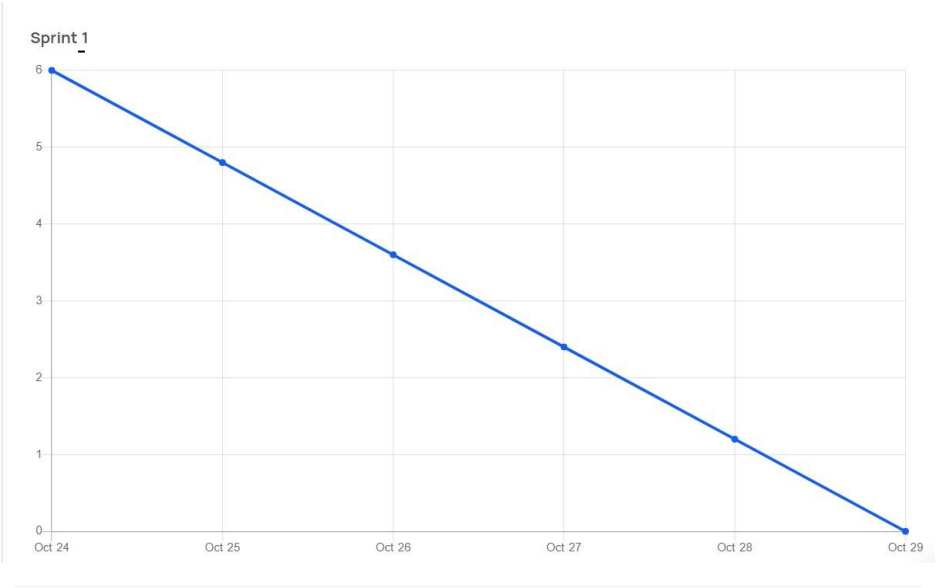
$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

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

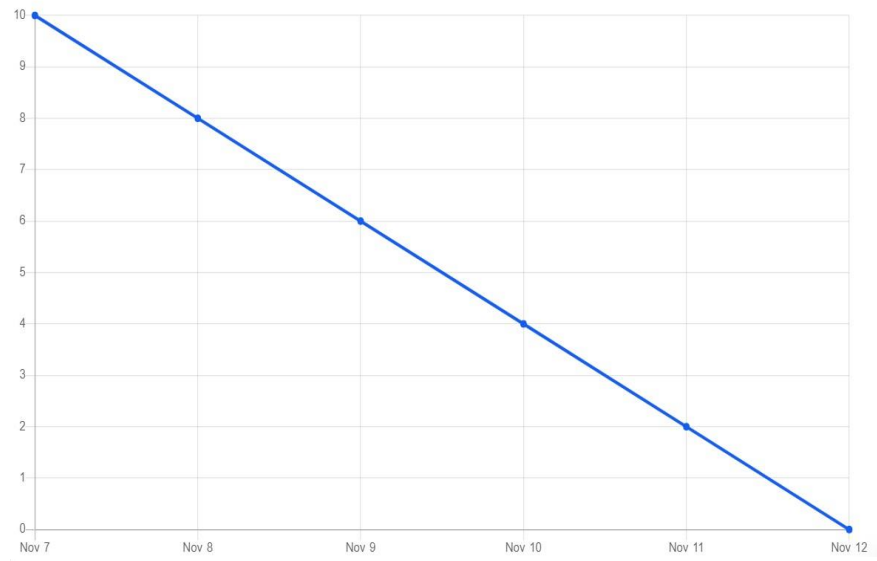
#### Burndown Chart:

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.

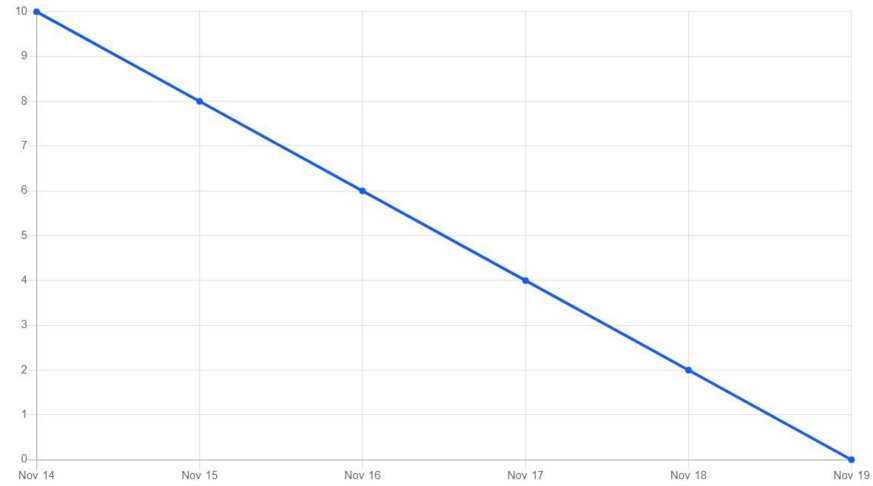
Estimated Effort:



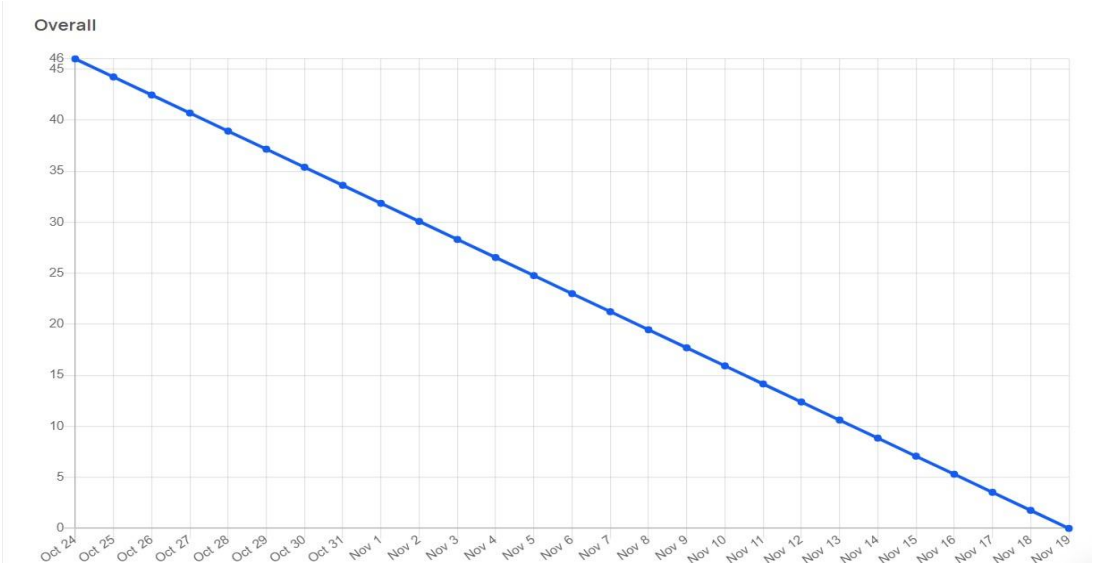
Sprint 3



Sprint 4



Overall burndown chart:



Project Planning Tool:

Jira Software

Your work

Projects

Filters

Dashboards

People

Apps

Create

Search

RETAIL STORE STOCK I...

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

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Projects / RETAIL STORE STOCK INVENTORY ANALYTICS

Backlog

RSMSPPPP

Epic

Insights

▼ RSSIA Sprint 1

22 Oct – 29 Oct

(4 issues)

To complete registration module

0

6

0

Complete sprint

RSSIA-2

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

REGISTRATION

2

IN PROGRESS

RS

RSSIA-3

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

REGISTRATION

1

IN PROGRESS

MS

RSSIA-4

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

REGISTRATION

2

IN PROGRESS

RS

RSSIA-5

As a user, I can log into the application by entering email & password

REGISTRATION

1

IN PROGRESS

MS

+ Create issue

▼ RSSIA Sprint 2

29 Oct – 5 Nov

(5 issues)

16

0

0

Start sprint

RSSIA-6

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

REGISTRATION

2

TO DO

PP

RSSIA-7

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

DASHBOARD

3

TO DO

PP

Quickstart



RETAIL STORE STOCK I...  
Software project

Projects / RETAIL STORE STOCK INVENTORY ANALYTICS

## Roadmap

Give feedback

Share

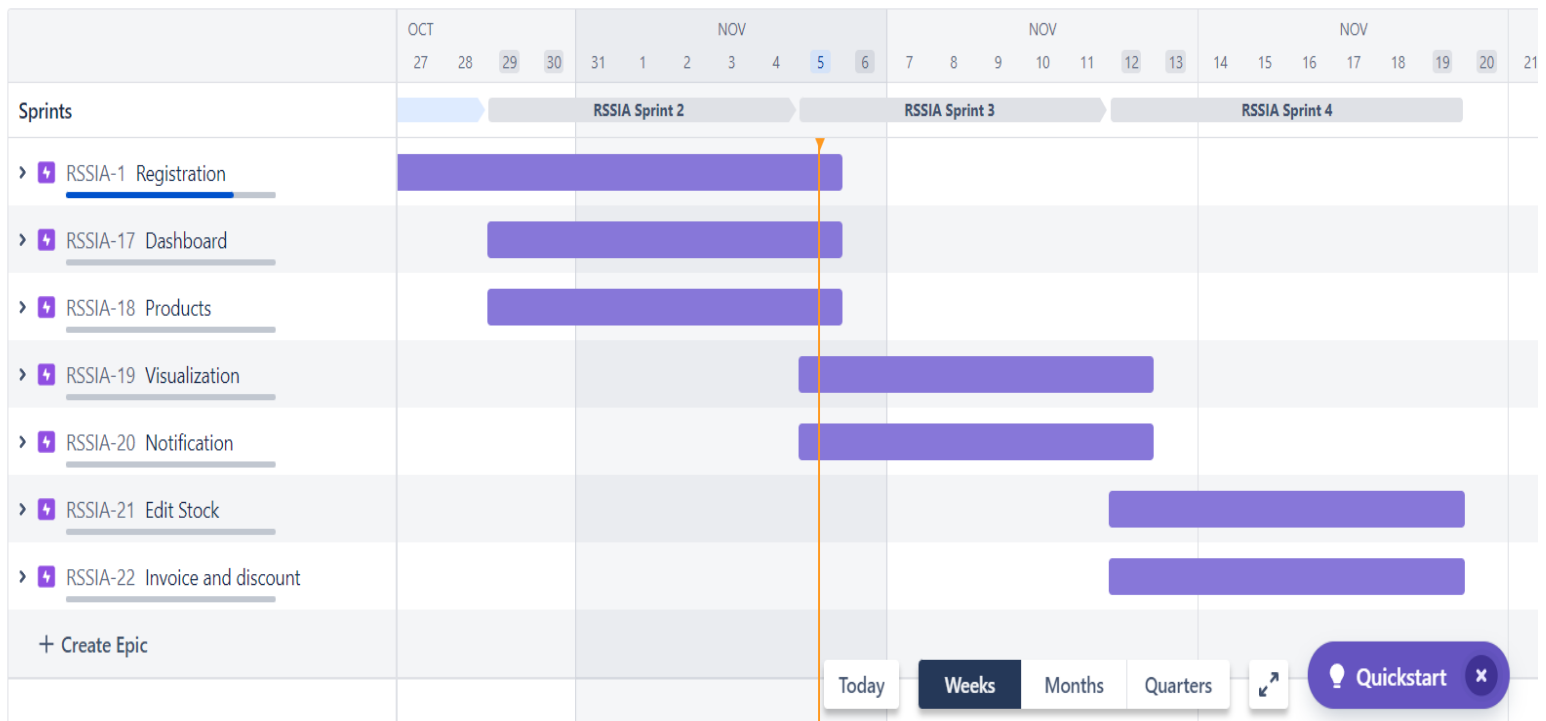
Export ...

View settings



Status category

Epic





**Milestones and Activities:**

<b>MILESTONES</b>	<b>ACTIVITIES</b>
Registration	<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>
Product	<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>
Edit Stock	<ul style="list-style-type: none"><li>• Reorder/ Update Stock</li></ul>
Invoice and Discount	<ul style="list-style-type: none"><li>• Invoice generation and discount validation</li></ul>