Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID51941
Project Name	Project - Retail Store Stock Inventory Analytics
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Re uirement E ic	User Story Number	User Story I Task	Story Points	Priority	Team Members
Sprint-I	Registration	USN-I	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-I	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-I	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Harshavardini V S, Abino Amriy E S, Akhin C S,

						Amal Krishnan V S
Sprint-I	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V 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	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S

Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S

Sprint	Functional Re uirement E ic	User Story Number	User Story I Task	Story Points	Priority	Team Members
Sprint-3	Stock Prediction	USN-IO	As a user I can predict out of stock and less stock for a product	5	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Harshavardini V S, Abino Amriy E S, Akhin C S, Amal Krishnan V S

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-I	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)

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

Sprint	Total Story Points	Duration	Average Velocity
Sprint-I	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

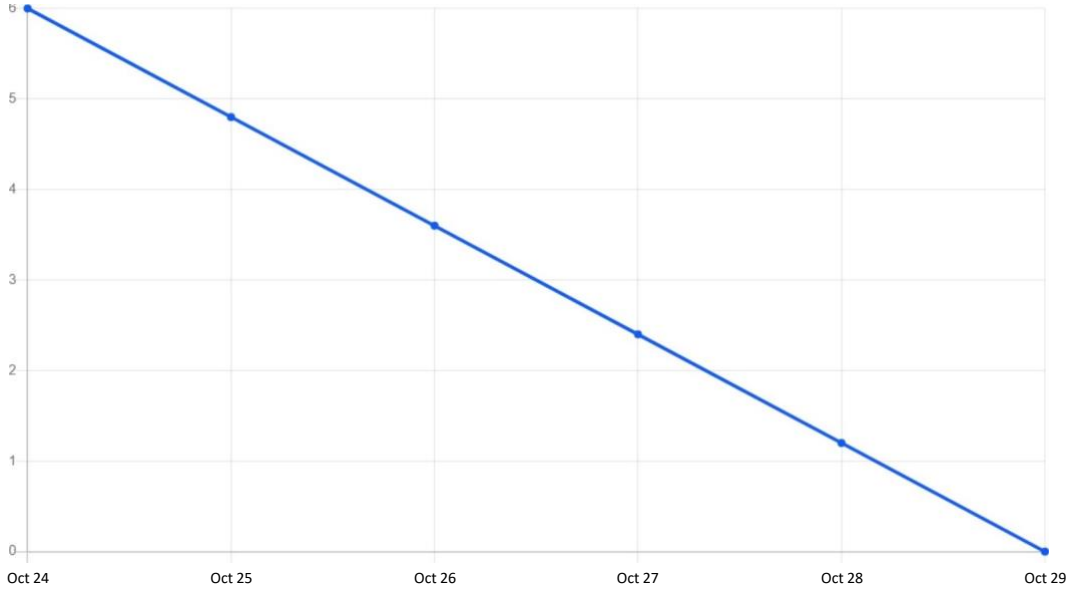
Burndown Chart:

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:

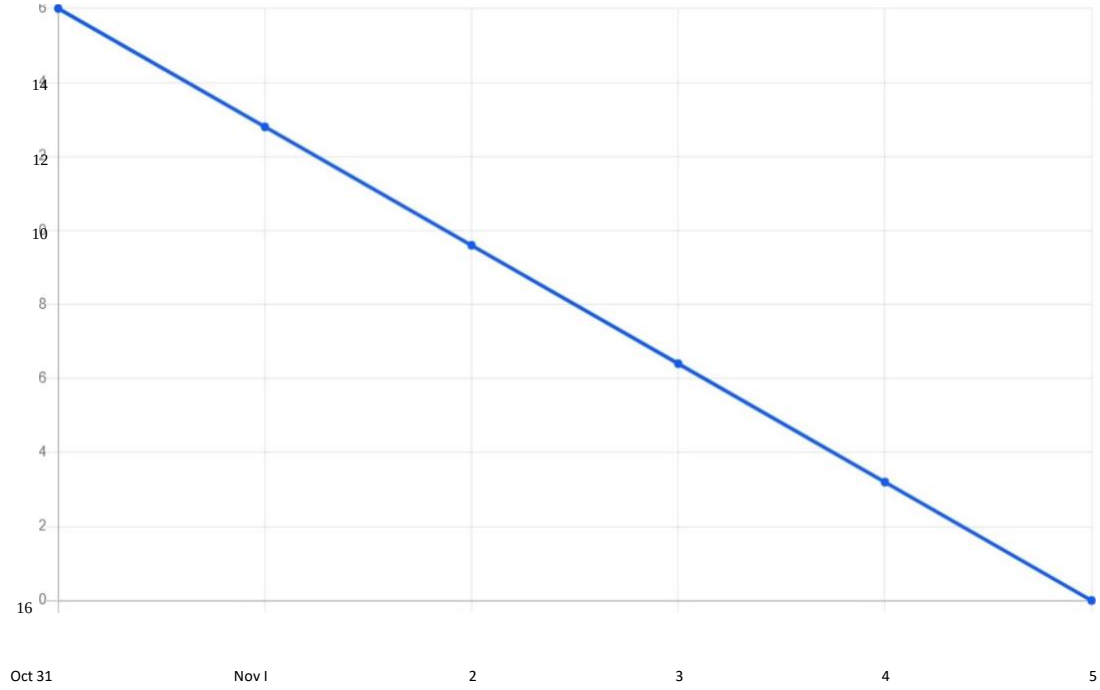
Sprint - i

Sprint-l



Sprint-2

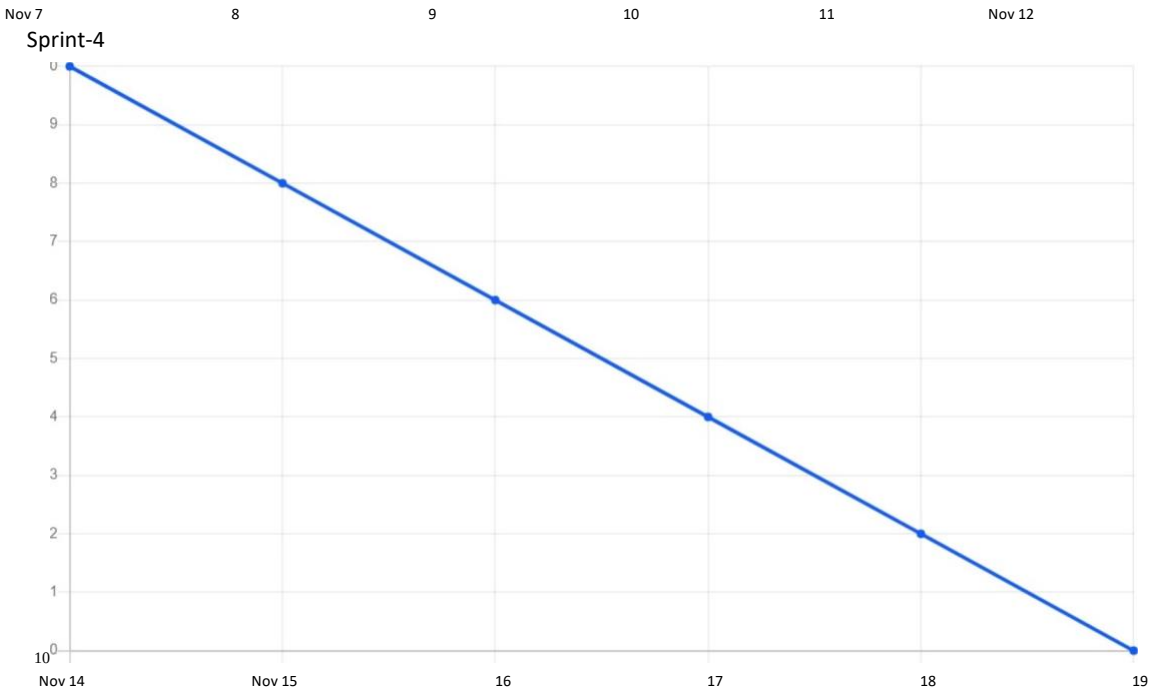
Sprint - 2



Nov Nov Nov Nov

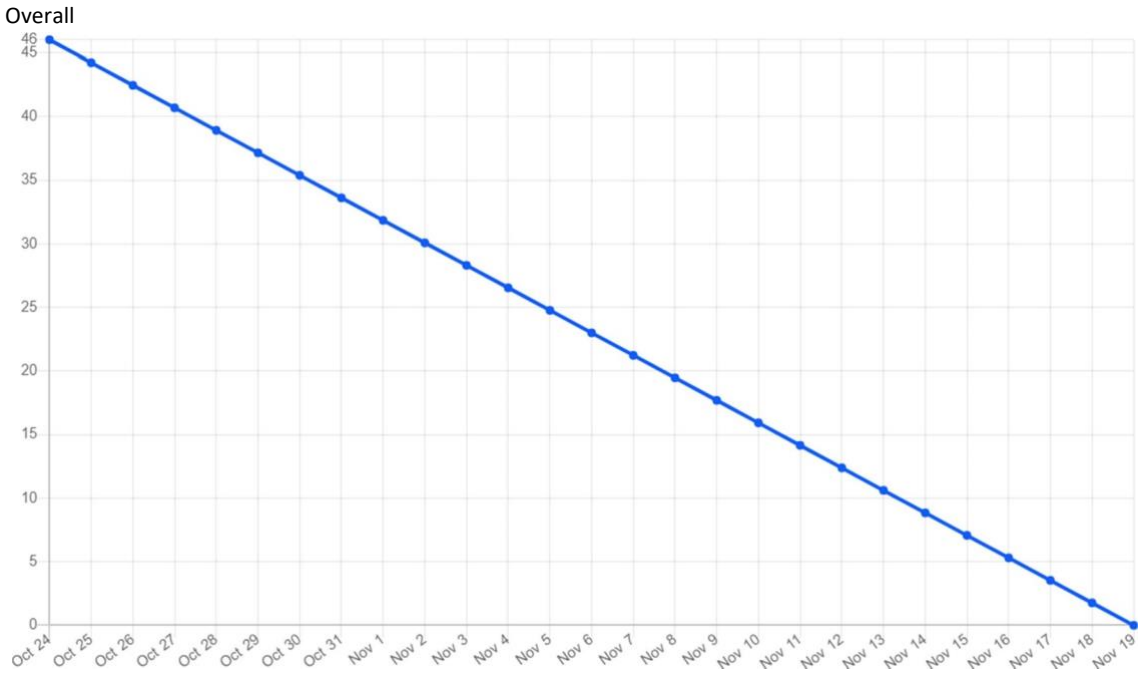
Sprint - 3

Sprint - 4



Nov Nov Nov Nov

Overall burndown chart:



Milestones and Activities:

MILESTONES	ACTIVITIES
Login	Login into Dashboard
Dashboard	View Stocks • Perform Predictions Search Products
Updating Stocks	• View Products Add Products • Delete Products
Visualization	Report generation Out of stock prediction In stock prediction
Discount system	• Discounts based on credits Invoice generation
Orders	• Reorder Stock
Notification system	Notification upon critical stock