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

Team ID	PNT2022TMID45059
Project Title	Retail Store Stock Inventory Analytics

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	Login	USN-1	As a Retailer, I can log into the application by entering email & password (provided by developer)	1	High	Sanjay S Dinesh Krishna p
Sprint-2	Add Product	USN-2	As a Retailer, I will be able to add the product by entering their details(product name,price and category).	8	High	Pragavi M Amarnath S Jheye Gokhul S
Sprint-2	Update product	USN-3	As a Retailer, I can able to update the product details by entering the product id(product idKnown by clicking view product button,Generated by the system while adding)	1	Low	Pragavi M Amarnath S Jheye Gokhul S

Sprint-2	Delete product	USN-4	As a Retailer, I can able to delete the product as it is no longer needed by entering the product id(product id- Known by clicking view product button,Generated by the system while adding)	1	Low	Pragavi M Amarnath S
Sprint-2	View products	USN-5	As a Retailer I am able to view the list of products by clicking the view product button in the stocks tab.	3	High	Pragavi M Jheye Gokhul S
Sprint-1	Add category	USN-6	As a Retailer I am able to add category by entering category details (Category name)	5	High	Sanjay S Dinesh Krishna p
Sprint-1	Update category	USN-7	As a Retailer, I am able to update the category details by selecting the category name.	3	Low	Sanjay S Dinesh Krishna p
Sprint-1	Delete category	USN-8	As a Retailer, I am able to delete the category details by selecting the category name as it is no longer needed	2	Low	Sanjay S Dinesh Krishna p
Sprint-2	Order product	USN-9	As a Retailer I am able to order the products by entering customer details,product id and quantity.	5	High	Pragavi M Amarnath S Jheye Gokhul S

Sprint-2	View Summary	USN-10	As a Retailer I can view the summary of the inventory such as total orders,stock details and sales details.	13	High	Pragavi M Amarnath S Jheye Gokhul S

Sprint-2	View Bills	USN-11	As a Retailer I can view bills based on the amount,date and customer.	2	Medium	Pragavi M Amarnath S Jheye Gokhul S
Sprint-3	Add Employee	USN-12	As a Retailer I can add employees by Entering their details.	3	High	Pragavi M Amarnath S Jheye Gokhul S
Sprint-3	Update Employee	USN-13	As a Retailer I can Update the employee details by entering their id.	1	Low	Sanjay S
Sprint-3	Delete Employee	USN-14	As a Retailer I can Delete the employee as it is no longer needed.	1	Low	Dinesh Krishna P
Sprint-3	View profile	USN-15	As a Retailer I can View list of employees and their details by clicking the view profile button.	2	Medium	Pragavi M
Sprint-3	Notify on critical stock	USN-16	As a Retailer I can view the notification (due to understock and overstock) via mobile phone and dashboard(Home page).	8	High	Jheye Gokhul S

Sprint-3	Add daily purchase.	USN-17	As a Retailer I can add the daily purchase by Entering the product Id and quantity.	5	High	Amarnath S
Sprint-1	Login	USN-18	As a Employee I can log into the application by entering email & password (provided by developer)	1	High	Sanjay S Dinesh Krishna P
Sprint-4	Order product	USN-19	As an Employee I am able to order the products by entering customer details,product id and quantity	5	High	Sanjay S Dinesh Krishna p
Sprint-4	View summary	USN-20	As an Employee I can view the summary of the inventory such as total orders,stock details and sales details	8	High	Pragavi M Amarnath S Jheye Gokhul S
Sprint-4	View Bills	USN-21	As an Employee I can view bills based on the amount,date and customer	2	Medium	Sanjay S Dinesh Krishna p
Sprint-4	Add daily purchase	USN-22	As an Employee I can add the daily purchase by Entering the product Id and quantity	3	High	Pragavi M Amarnath S Jheye Gokhul S

Project Tracker, Velocity & Burndown Chart:

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	12	6 Days	24 Oct 2022	29 Oct 2022	12	29 Oct 2022
Sprint-2	33	6 Days	31 Oct 2022	05 Nov 2022	33	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	18	6 Days	14 Nov 2022	19 Nov 2022	18	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)

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

Sprint	Total Story Points	Duration	Average velocity
Sprint-1	12	6 Days	12/6 = 2
Sprint-2	33	6 Days	33/6 = 5.5

Sprint-3	20	6 Days	20/6 = 3.3
Sprint-4	18	6 Days	18/6 = 3
Over All	83	24 Days	83/24 = 3.45

Burndown Chart:

A burndown 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.

Sprint-1

Sprint-2

Sprint-4