

## Project Planning Phase

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

<b>Date</b>	<b>18 October 2022</b>
<b>Team ID</b>	<b>PNT2022TMID45379</b>
<b>Project Name</b>	<b>Retail Store Stock Inventory Analytics</b>
<b>Maximum Marks</b>	<b>8 Marks</b>

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

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
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	Sangeetha, Santhiya
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sangeetha, Santhiya
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Sangeetha, Santhiya
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Sangeetha, Santhiya
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Sangeetha, Santhiya
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Sangeetha, Santhiya, Roohifathima, Zoohifathima
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Sangeetha, Roohifathima

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Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Santhiya,Zoohifathima,Roohifathima
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Santhiya,Zoohifathima,Roohifathima

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Sprint-3	Stock Prediction	USN-10	As a user I can predict out of stock and less stock for a product	5	High	Santhiya,Zoohifathima,Roohifathima
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Santhiya,Sangeetha,Roohifathima
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Sangeetha,Zoohifathima
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Sangeetha,Santhiya,Roohifathima,Zoohifathima
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Santhiya,Sangeetha,Roohifathima
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Sangeetha,Roohifathima

### 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	$46/24=1.91$



