

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID38670
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	Sakthi Maheswari, Atchaya
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Saranya, Snega
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Snega, Bhuvaneshwari
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Saranya , Bhuvaneshwari
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Atchaya, Bhuvaneshwari
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Saranya, Bhuvaneshwari
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Snega, Sakthi Maheswari
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Saranya, Atchaya
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Atchaya, Sakthi Maheswari

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

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	5 Days	29 Oct 2022	04 Oct 2022	6	04 Nov 2022
Sprint-2	16	5 Days	05 Nov 2022	10 Nov 2022	16	10 Nov 2022
Sprint-3	10	3 Days	11 Nov 2022	14 Nov 2022	10	14 Nov 2022
Sprint-4	14	3 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	5 Days	6/5=1.2
Sprint-2	16	5 Days	16/5=3.2
Sprint-3	10	3 Days	10/3=3.33
Sprint-4	14	3 Days	14/3=4.6
Total	46	16	46/16=2.87

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