

## Project Planning Phase

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

Date	24 October 2022
Team ID	PNT2022TMID01375
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	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-1		USN-3	As a user, I can register for the application through Gmail	1	Medium	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha

<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	Forget password	USN-5	As a user, I can reset the password if I forget the password.	1	Medium	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-2	ETL process	USN-6	As a user, I can perform the extract, Transform, Load process	1	High	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-2	Data cleaning	USN-7	As a user, I can perform the data cleaning process	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-2	Visualization and insights	USN-8	As a user, I can visualize the data and find the insights.	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-3	Data Modeling	USN-9	As a user, I can build the model	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-3	Machine learning Model	USN-10	As a user, I can use various ml models to analyze the data	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-3	Test and train model	USN-11	As a user, I can test and train the model	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha

<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-4	Dashboard	USN-12	As a user, I can create the dashboard about the detailed analytics of the project	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha
Sprint-4	Report	USN-13	As a user, I can generate report based on the Dashboard.	2	High	Sai pavithra, Sowmiya, Srinithi, Swetha

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
Sprint-1	7	6 Days	24 Oct 2022	29 Oct 2022	7	29 Oct 2022
Sprint-2	5	6 Days	31 Oct 2022	05 Nov 2022	5	05 Nov 2022
Sprint-3	6	6 Days	07 Nov 2022	12 Nov 2022	6	12 Nov 2022
Sprint-4	4	6 Days	14 Nov 2022	19 Nov 2022	4	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)

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

## Burndown Chart:





