# Project Planning Phase
## Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

| Date | 27 October 2022 |
|---|---|
| Team ID | PNT2022TMID32631 |
| Project Name | Retail Store Stock Inventory Analytics |
| Maximum Marks | 8 Marks |

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

Use the below template to create product backlog and sprint schedule

| 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. | 8 | High | Brundha, Dhanalakshmi |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 8 | High | Karthick, Maheswaran |
| Sprint-2 | | USN-3 | As a user, I can register for the application through Facebook | 2 | Low | Brundha ,Dhanalakshmi |
| Sprint-1 | | USN-4 | As a user, I can register for the application through Gmail | 4 | Medium | Karthick, Maheswaran |
| Sprint-2 | Login | USN-5 | As a user, I can log into the application by entering email & password | 10 | High | Maheswaran, Karthick |
| M | Dashboard | USN-6 | As a user, I can view the year wise price representation of the dataset | 8 | High | Maheswaran |
| Sprint-3 | | USN-7 | As a user, I can view the wise stock representation of the dataset | 8 | High | Dhanalakshmi |
| Sprint-3 | | USN-8 | As a user, I can view the top 10 sales of the given dataset | 8 | High | Karthick |
| Sprint-3 | | USN-9 | As a user, I can view the monthly sales of stock for the dataset | 4 | Medium | Brundha |

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|--------|---------------|--------|------------------|-----|------|--------|
| Sprint-4 | | USN-10 | As a user, I can view the monthly revenue the stock for the dataset. | 10 | High | Brundha ,Dhanala kshmi |
| Sprint-4 | | USN-11 | As a user, I can view the summary of the retail stock dataset | 10 | High | Maheswaran, Karthick |

**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 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 31 Oct 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 7 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 14 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

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

**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.