

## Project Planning Phase

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

|               |  |
|---------------|--|
| Date          | 19 November 2022                       |
| Team ID       | PNT2022TMID17895                       |
| Project Name  | Retail Store Stock Inventory Analytics |
| Maximum marks | 8                                      |

#### Product backlogs, Sprint schedule, Estimation(4 marks)

| Sprint   | Functional Requirement(Epic) | User Story Number | User Story / Task   | Story Points | Priority | Team Members  |
|----------|------------------------------|-------------------|---|--------------|----------|---|
| Sprint-1 | Data Collection              | USN-1             | The dataset is collected and observed to understand the data for further data cleaning and exploration. | 2            | High     | Jeba Jebas A<br>Lekhapriyadharshini T<br>Rufina J<br>Abinaya S<br>Shruthi S V |
| Sprint-1 | Data Preparation             | USN-2             | The data preparation is done to clean the data and for better visualization for user understanding.     | 3            | High     | Jeba Jebas A<br>Lekhapriyadharshini T<br>Rufina J<br>Abinaya S<br>Shruthi S V |
| Sprint-2 | Data Exploration             | USN-3             | The data is visualized to understand about the sales, revenue and stock on a daily basis.               | 8            | High     | Jeba Jebas A<br>Lekhapriyadharshini T<br>Rufina J<br>Abinaya S<br>Shruthi S V |

| <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-3      | Dashboard Creation                   | USN-4                    | The dashboard is created to view different visualization charts about sales, stock, and revenue.  | 8                   | High            | Jeba Jebas A<br>Lekhapriyadharshini T<br>Rufina J<br>Abinaya S<br>Shruthi S V |
| Sprint-4      | Report creation                      | USN-5                    | The user can view the detailed report of the sales, stock, revenue and price. The user can get the report of the particular data.                   | 8                   | High            | Jeba Jebas A<br>Lekhapriyadharshini T<br>Rufina J<br>Abinaya S<br>Shruthi S V |
| Sprint-4      | Story creation                       | USN-6                    | The user can view the story to get the better understanding of the sales, stock, revenue and price. The user can make decisions based on the story. | 8                   | High            | Jeba Jebas A<br>Lekhapriyadharshini T<br>Rufina J<br>Abinaya S<br>Shruthi S V |

### **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      | 5                         | 4 Days          | 31 Oct 2022              | 03 Nov 2022                      | 5  | 19 Nov 2022                         |
| Sprint-2      | 8                         | 4 Days          | 05 Nov 2022              | 08 Nov 2022                      | 8  | 19 Nov 2022                         |
| Sprint-3      | 8                         | 4 Days          | 10 Nov 2022              | 13 Nov 2022                      | 8  | 19 Nov 2022                         |
| Sprint-4      | 16                        | 5 Days          | 15 Nov 2022              | 19 Nov 2022                      | 16   | 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   | Story points | Duration | Average velocity |
|----------|--------------|----------|------------------|
| Sprint-1 | 5            | 4        | 1.25             |
| Sprint-2 | 8            | 4        | 2                |
| Sprint-3 | 8            | 4        | 2                |
| Sprint-4 | 16           | 5        | 3.2              |
| Total    | 37           | 17       | 2.17             |

Jira project planning

