

Project Planning Phase

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

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|---------------|-----------------------------|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID05248 |
| Project Name | Global Sales Data 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. | 2 | High | Mariya Monisha J Nigitha Christo |
| Sprint-1 | Login | USN-2 | As a user, I need valid credentials to log in to my application. | 1 | High | Mariya Monisha J Nigitha Christo |
| Sprint-1 | Data Collection | USN-3 | As a user, I need to gather the data in the form of CSV/XLS and clean the data | 2 | High | Mariya Monisha J Nigitha Christo |
| Sprint-2 | Upload dataset | USN-4 | As a user, I can view the data of the products | 1 | Low | Mariya Monisha J Nivetha |
| Sprint-2 | Data Preparation | USN-5 | As a user, I need to filter it for Data visualization. | 3 | High | Mariya Monisha J Nivetha |
| Sprint-2 | Data visualization | USN-6 | As a user, I can easily visualize the data in the form of charts. | 4 | Medium | Mariya Monisha J Nivetha |

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|----------|-----------|-------|---|---|--------|----------------------------------|
| Sprint-3 | Dashboard | USN-7 | As a user, I can view the summary of the product sales by the help dashboard. | 2 | Medium | Mariya Monisha J Nithya |
|----------|-----------|-------|---|---|--------|----------------------------------|

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|----------|-----------|-------|--|---|------|----------------------------|
| | | | | | | |
| Sprint-3 | Dashboard | USN-8 | As a user, I must plan visualizations in a way that I'm able to gain insights regarding the sales based upon the category of sales and the respective region | 4 | High | Mariya Monisha J Nithya |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|-----------|-------------------------------|-------------------|--|--------------|----------|----------------------------|
| Sprint-3 | Dashboard | USN-9 | As a user, I must be able to gain insights from the charts/graphs through a variety of relationships established in the dashboard. | 4 | Medium | Mariya Monisha J Nithya |
| Sprint- 4 | Prediction | USN-10 | As a user, I see the prediction of the specific product's future sales expectation. | 4 | Medium | Mariya Monisha J |
| Sprint- 4 | Report | USN-11 | As a user, I can view the list of categorized products and their details as a report. | 5 | High | Mariya Monisha J |
| Sprint-4 | Story | USN-12 | As a user, I can view the product and customer description and more additional information as a story. | 5 | High | Mariya Monisha J |

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

| Sprints | 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 | 5 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 8 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 10 | 12 Nov 2022 |
| Sprint-4 | 20 | 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)

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

iteration unit (story points per day)

| SPRINT | TOTAL STORY POINTS | DURATION | AVERAGE VELOCITY |
|----------|--------------------|----------|------------------|
| SPRINT-1 | 5 | 6 Days | 5/6 = 0.833 |
| SPRINT-2 | 8 | 6 Days | 8/6 = 1.33 |
| SPRINT-3 | 10 | 6 Days | 10/6 = 1.66 |
| SPRINT-4 | 14 | 6 Days | 14/6 = 2.33 |

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.

Overall Burndown Chart:



