

Project Planning Phase

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

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|---------------|---|
| Date | 15 February 2025 |
| Team ID | PNT2025TMID02999 |
| Project Name | Global Malnutrition Trends: A Power BI Analysis (1983-2019) |
| Maximum Marks | 5 Marks |

Product Backlog, Sprint Schedule, and Estimation

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|--|--------------|----------|--------------|
| Sprint-1 | Data Collection & Cleaning | USN-1 | As a data analyst, I want to load and clean the dataset so that it is ready for analysis. | 3 | High | |
| Sprint-1 | | USN-2 | As a data analyst, I want to remove missing or inconsistent values from the dataset. | 2 | High | |
| Sprint-2 | Data Transformation | USN-3 | As a data analyst, I want to normalize country names for consistency. | 2 | Medium | |
| Sprint-2 | | USN-4 | As a data analyst, I want to merge multiple datasets for easier analysis. | 3 | High | |
| Sprint-3 | Data Visualization | USN-5 | As a Power BI user, I want to create a dashboard displaying malnutrition trends per country. | 5 | High | |
| Sprint-3 | | USN-6 | As a Power BI user, I want to visualize malnutrition trends over time (1983-2019). | 4 | High | |
| Sprint-4 | Insights & Reporting | USN-7 | As a researcher, I want to analyse the correlation between malnutrition and income classification. | 4 | Medium | |
| Sprint-4 | | USN-8 | As a researcher, I want to generate a final report summarizing key findings. | 3 | High | |

Project Tracker, Velocity & Burndown Chart:

| 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 | 5 | 7 Days | 11 Feb 2025 | 17 Feb 2025 | 5 | 17 Feb 2025 |
| Sprint-2 | 5 | 7 Days | 18 Feb 2025 | 24 Feb 2025 | 5 | 24 Feb 2025 |
| Sprint-3 | 9 | 7 Days | 25 Feb 2025 | 2 Mar 2025 | 7 | 2 Mar 2025 |
| Sprint-4 | 7 | 7 Days | 5 Mar 2025 | 11 Mar 2025 | 7 | 11 Mar 2025 |

Velocity:

- **Sprint Duration = 7 days**
- **Total Story Points Completed = (5 + 5 + 7 + 7) = 24**
- **Total Sprints = 4**

Average Velocity per Iteration Unit:

AV= Total Story Points / Sprint Duration

AV=24 / (7+7+7+7)

AV=24 / 28 = 0.86 Story Points per day.

Burndown Chart:

The Burndown Chart below visualizes the remaining story points across sprints:

