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

| Date | 24 July 2025 |
|---|---|
| Team ID | PNT2025TMID10173 |
| Project Name | Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis |
| Maximum Marks | 5 Marks |

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

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Assigned To |
|---|---|---|---|---|---|---|
| Sprint1 | Data Preparation | USN-1 | Upload Economic Freedom dataset in CSV format | 3 | High | TL |
| Sprint1 | Data Cleaning | USN-2 | Handle missing values and standardize country codes | 4 | High | M2 |
| Sprint1 | Data Validation | USN-3 | Verify data consistency and column mapping | 5 | High | M3 |
| Sprint2 | Dashboard Development | USN-4 | Build Tableau visuals for the 4 pillars of economic freedom | 5 | High | M2 |
| Sprint2 | Filter Integration | USN-5 | Apply country, year, and pillar filters in dashboard | 4 | Medium | M3 |
| Sprint2 | Dashboard Publishing | USN-6 | Publish the interactive dashboard to Tableau Public | 3 | High | TL |

| Sprint3 | Performance Testing | USN-7 | Test dashboard responsiveness and filter performance | 4 | Medium | TL |
|---------|---------------------|-------|------------------------------------------------------|---|--------|-----|
| Sprint3 | Screenshot & Documentation | USN-8 | Capture dashboard screenshots and summarize insights | 4 | Medium | M2 |
| Sprint3 | Folder Structure Setup | USN-9 | Organize files and upload to required folder structure | 4 | High | M3 |
| Sprint4 | Final Review | USN-10 | Validate dashboard, data, and reports before submission | 6 | High | All 3 |
| Sprint4 | Video Demo | USN-11 | Record project walkthrough demo and upload | 6 | High | TL + M3 |

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

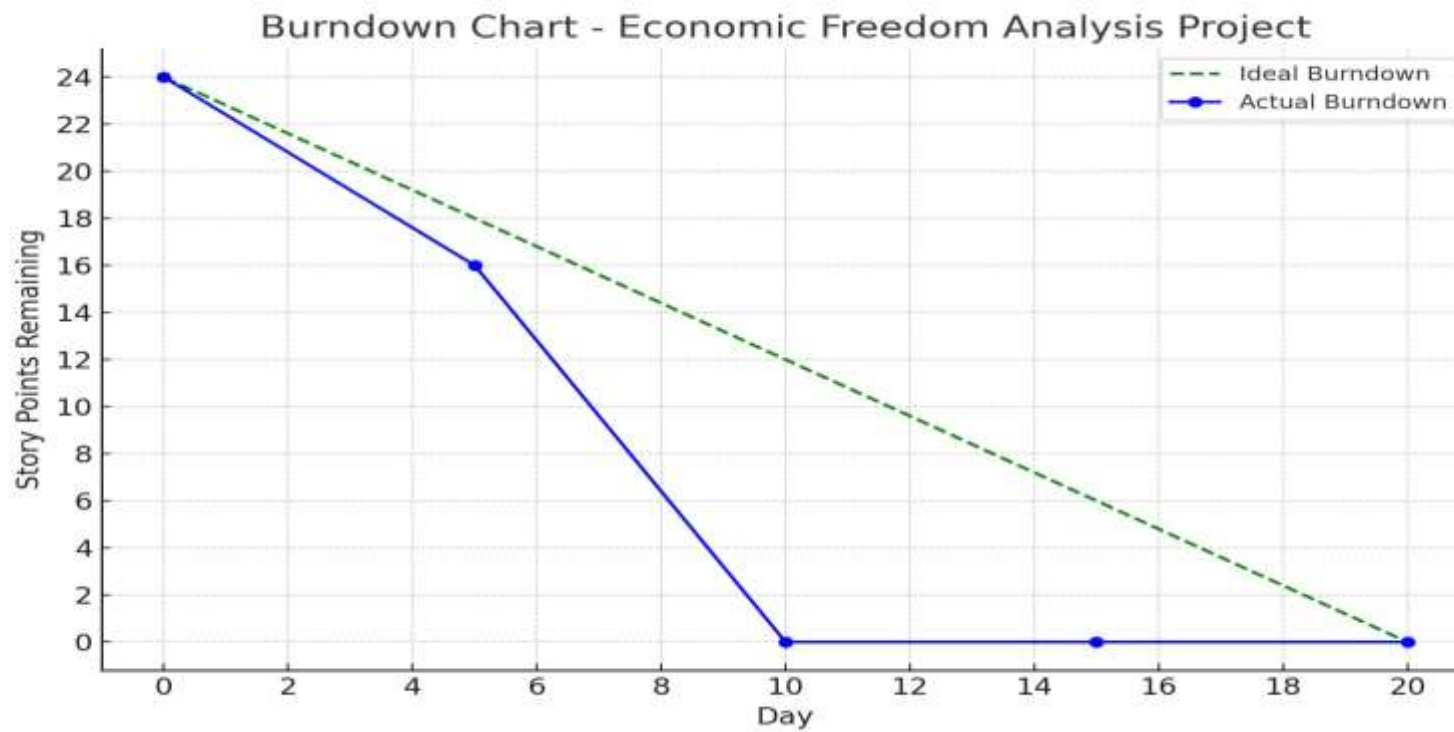| Sprint | Total Story Points | Duration | Start Date | End Date | Story Points Completed | Sprint Release Date |
|--------|--------------------|----------|------------|----------|------------------------|---------------------|
| Sprint-1 | 8 SP | 5 Days | 20 June 2025 | 24 June 2025 | 8 SP | 24 June 2025 |
| Sprint-2 | 16 SP | 5 Days | 25 June 2025 | 29 June 2025 | 16 SP | 29 June 2025 |
| Sprint-3 | 12 SP | 5 Days | 30 June 2025 | 4 July 2025 | - | - |
| Sprint-4 | 12 SP | 5 Days | 5 July 2025 | 9 July 2025 | - | - |

**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.

Burndown Chart - Economic Freedom Analysis Project

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/
https://www.atlassian.com/agile/tutorials/burndown-charts

**Reference:**

[https://www.atlassian.com/agile/project-management](https://www.atlassian.com/agile/project-management)

[https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software](https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software)

[https://www.atlassian.com/agile/tutorials/epics](https://www.atlassian.com/agile/tutorials/epics) [https://www.atlassian.com/agile/tutorials/sprints](https://www.atlassian.com/agile/tutorials/sprints)

[https://www.atlassian.com/agile/project-management/estimation](https://www.atlassian.com/agile/project-management/estimation)

[https://www.atlassian.com/agile/tutorials/burndown-charts](https://www.atlassian.com/agile/tutorials/burndown-charts)