# Project Planning Phase

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

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|---|---|
| Date | 25 October 2023 |
| Team ID | TEAM-591164 |
| Project Name | International Debt Statistics |
| 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 | Basic Data Access and Visualization | USN-1 | As a financial analyst, I want to access international debt statistics for various countries and analyze the trends in debt accumulation and repayment. I can search and select specific countries or regions for which I want to retrieve debt data. | 5 | High | Malvika |
| Sprint-1 | | USN-2 | As a financial analyst, I require access to essential international debt statistics and basic visualization tools in Sprint 1 to start my preliminary analysis. The platform provides a | 5 | High | Pavithra |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | user-friendly interface for searching and selecting specific countries or regions. | | | |
| Sprint-2 | Debt Policy Decision Support | USN-3 | As a government policy maker, I want to receive concise reports and insights from the international debt statistics system to inform debt management and policy decisions. The system generates summary reports that highlight key debt statistics for my country or region. | 8 | Medium | Preethi |
| Sprint-3 | Data Export and Integration | USN-4 | As a data analyst, I need to export international debt statistics data and integrate it into our organization's data warehouse for comprehensive analysis and reporting. I can export raw debt data in standard formats like CSV or JSON. | 8 | High | Yaswitha |
| Sprint-3 | Data Quality Assurance | USN-5 | As a data analyst, I require data quality assurance measures to be implemented, ensuring the accuracy and reliability of international debt statistics. I can access data quality reports and alerts to identify and address issues promptly. | 8 | High | Malvika,Pavithra |
| Sprint 4 | Historical Debt Data Access | USN-6 | As a researcher, I need access to historical debt data for multiple countries spanning several decades for academic research and analysis. I can select countries, specify time periods, and retrieve data in a structured format. | 13 | High | Yaswitha,Preethi |

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| Sprint 5 | Compliance Reporting | USN-7 | As a compliance officer, I need to generate reports that ensure our organization's debt management practices align with international standards and regulations. Reports include detailed analyses of compliance with debt-to-GDP limits, debt sustainability, and other key metrics. | 8 | Medium | Malvika,Yaswitha |
| Sprint 6 | Investor Communication | USN-8 | As an investor relations manager, I need to access up-to-date international debt statistics to provide accurate information to investors and stakeholders. The system provides real-time access to current debt statistics for countries where we have investments. | 5 | High | Preethi,Pavithra |

**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 | 5 | 4 Days | 18 Oct 2023 | 21 Oct 2023 | 5 | 21 Oct 2023 |
| Sprint-2 | 5 | 4 Days | 21 Oct 2023 | 24 Oct 2023 | 4 | 24 Oct 2023 |
| Sprint-3 | 8 | 6 Days | 24 Oct 2023 | 29 Oct 2023 | 7 | 29 Oct 2023 |

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|---|---|---|---|---|---|---|
| Sprint-4 | 8 | 6 Days | 29 Oct 2023 | 03 Nov 2023 | 8 | 03 Nov 2023 |
| Sprint-5 | 8 | 3 Days | 03 Nov 2023 | 05 Nov 2023 | 6 | 05 Nov 2023 |
| Sprint-6 | 5 | 3 Days | 05 Nov 2023 | 08 Nov 2023 | 5 | 08 Nov 2023 |

**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)

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

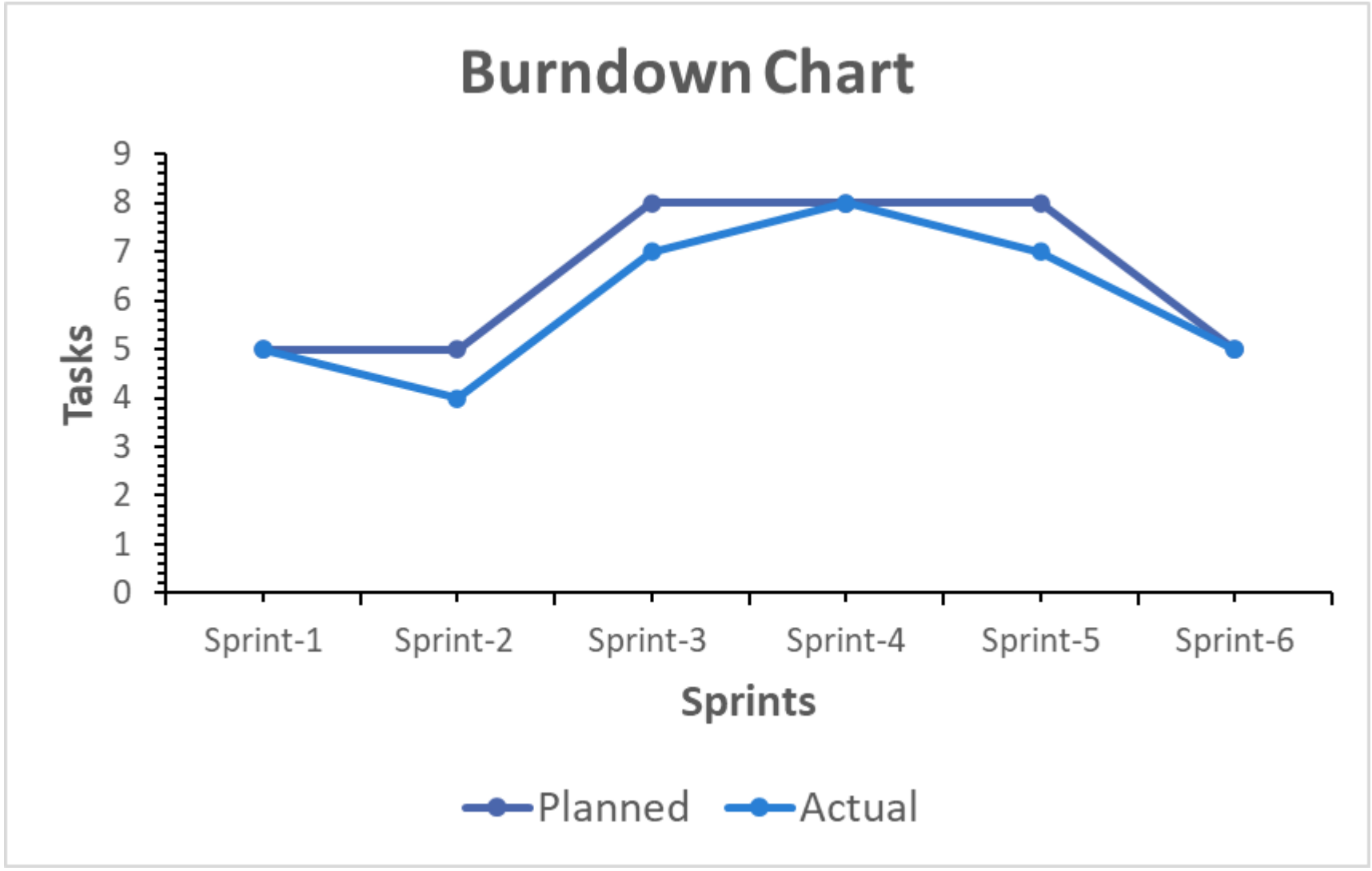
- Sprint-1: Velocity = 5 / 4 = 1.25 points per day
- Sprint-2: Velocity = 5 / 4 = 1.25 points per day
- Sprint-3: Velocity = 8 / 6 = 1.33 points per day
- Sprint-4: Velocity = 8 / 6 = 1.33 points per day
- Sprint-5: Velocity = 8 / 3 = 2.67 points per day
- Sprint-6: Velocity = 5 / 3 = 1.67 points per day

**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.

**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**

**https://www.atlassian.com/agile/tutorials/burndown-charts**


Burndown Chart
Tasks
9
8
7
6
5
4
3
2
1
0
Sprint-1
Sprint-2
Sprint-3
Sprint-4
Sprint-5
Sprint-6
Sprints
Planned
Actual

**Reference:**


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/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts