

Project Planning Phase

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

Date	20 February 2026
Team ID	LTVIP2026TMIDS74700
Project Name	Empowering India: Analysing the Evolution of Union Budget Allocations for Sustainable Growth
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	Data Collection & Storage	USN-1	As a system, I can collect historical Union Budget data from official sources.	5	High	Data Team
Sprint-1		USN-2	As a system, I can store collected data in database/cloud storage.	3	High	Data Team
Sprint-1	User Management	USN-3	As a user, I can register and login to access dashboard.	2	Medium	Backend Team
Sprint-2	Data Processing	USN-4	As an analyst, I can clean and preprocess budget datasets.	5	High	Data Team
Sprint-2		USN-5	As a system, I can categorize budget allocations (health, education, defence, etc.).	3	High	Data Team
Sprint-2	Dashboard	USN-6	As a user, I can view sector-wise allocation trends in charts.	4	High	Frontend Team

Sprint-3	Analytics & Forecasting	USN-7	As a researcher, I can analyze year-wise allocation growth trends.	5	High	ML Team
Sprint-3		USN-8	As a system, I can generate future allocation predictions using forecasting models.	5	Medium	ML Team
Sprint-3	Reports	USN-9	As a user, I can download analytical reports in PDF format.	3	Medium	Backend Team
Sprint-4	Sustainability Mapping	USN-10	As an analyst, I can map budget allocations to SDGs.	4	High	Data Team
Sprint-4		USN-11	As a user, I can compare Union Budget with State Budgets.	4	Medium	Data Team
Sprint-4	Performance Optimization	USN-12	As a system, I can handle large datasets efficiently.	3	Medium	Full Team

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date (Actual)
Sprint-1	20	6 Days	02 Feb 2026	07 Feb 2026	20	07 Feb 2026
Sprint-2	20	6 Days	08 Feb 2026	13 Feb 2026	18	14 Feb 2026
Sprint-3	20	6 Days	14 Feb 2026	19 Feb 2026	20	19 Feb 2026
Sprint-4	20	6 Days	15 Feb 2026	20 Feb 2026	19	20 Feb 2026

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)

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

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.

<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/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>