

Project Planning Phase

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

Date	19 February 2026
Team ID	LTVIP2026TMIDS34956
Project Name	Gemini Historical Artifact Description App
Maximum Marks	5 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 No	User Story / Task	Story Points	Priority	Team Members
Sprint-1	UI Development	USN-1	Design Streamlit UI for topic & word count input	3	High	Developer
Sprint-1	AI Integration	USN-2	Integrate Google Gemini API	5	High	Developer
Sprint-1	Blog Generation	USN-3	Implement structured prompt generation	4	High	Developer
Sprint-1	Output Display	USN-4	Display generated blog with formatting	3	High	Developer
Sprint-2	Download Feature	USN-5	Implement text file download functionality	2	Medium	Developer
Sprint-2	Interesting Fact Feature	USN-6	Add random historical fact display	2	Medium	Developer

Sprint-2	Error Handling	USN-7	Implement input validation & error messages	2	High	Developer
Sprint-3	Deployment	USN-8	Deploy application on Streamlit Cloud	3	Medium	Developer
Sprint-3	Testing	USN-9	Perform functional and performance testing	4	High	Developer

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points Completed	Sprint Release Date
Sprint-1	18	10 Days	29 Jan 2026	07 Feb 2026	18	07 Feb 2026
Sprint-2	8	6 Days	09 Feb 2026	14 Feb 2026	8	14 Feb 2026
Sprint-3	6	5 Days	16 Feb 2026	20 Feb 2026	6	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)

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

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>