

Project Planning Phase

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

Date	15 February 2026
Team ID	LTVIP2026TMIDS24242
Project Name	Gemini Historical Artifact Description
Maximum Marks	5 Marks

1. Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Core Setup & UI	USN-1	Set up Streamlit environment and configure Gemini API connection securely	2	High	Dev 1
Sprint-1		USN-2	Create "Premium Museum" CSS theme with dark mode and serif fonts	3	High	Designer/Dev 1
Sprint-1	User Input Handling	USN-3	Implement text input field for artifact names with validation	2	High	Dev 2
Sprint-1		USN-4	Implement image uploader supporting JPG/PNG formats	3	High	Dev 2
Sprint-1	Output Display	USN-5	Create "Glassmorphism" result cards for displaying AI output	3	Medium	Designer/Dev 1
Sprint-2	AI Logic	USN-6	Develop prompt engineering logic for structured text descriptions	3	High	Dev 1
Sprint-2		USN-7	Integrate Gemini Vision capabilities for image analysis	5	High	Dev 1
Sprint-2	Features	USN-8	Add "Did You Know?" random facts sidebar widget	2	Low	Dev 2
Sprint-2		USN-9	Implement file download functionality (TXT/MD)	2	Medium	Dev 2

Sprint-2		USN-10	Add loading animations and status indicators	2	Low	Designer
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2. 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	13	5 Days	15 Jan 2026	20 Jan 2026	13	20 Jan 2026
Sprint-2	14	5 Days	21 Jan 2026	21 Jan 2026	14	26 Jan 2026
Sprint-3	12	5 Days	27 Jan 2026	27 Jan 2026	12	1 Feb 2026
Sprint-4	10	10 Days	2 Feb 2026	2 Feb 2026	10	12 Feb 2026

3. Velocity Calculation

Assumption:

- Sprint Duration: 10 Days
- Average Velocity of the Team: 13.5 Points per Sprint (Average of Sprints 1 & 2:

$$(13+14)/2$$

Calculating Average Velocity (AV) per Iteration Unit (Story Points per Day):

- Formula:

Velocity (Points per Sprint) / Sprint Duration (Days)

- Calculation:

$$13.5 / 10 = 1.35$$

Result: The team's average velocity is 1.35 Story Points per Day.

4. Burndown Chart Data (Example for Sprint 1)

Imagine a line graph plotting these points:

- Day 1: 13 Points Remaining (Start)
- Day 3: 10 Points Remaining
- Day 5: 7 Points Remaining
- Day 8: 3 Points Remaining
- Day 10: 0 Points Remaining (Completion)

(A Burndown Chart visualizes this data, showing the "Actual Work Remaining" line potentially fluctuating around the "Ideal Work Remaining" diagonal line).