Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2026TMIDS26163
Project Name	Explore with AI: Custom Itineraries for Your Next Journey
Maximum Marks	5 Marks

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

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Requirement Analysis & Setup	AI-1	Understanding project scope and features	High	Gandi Rajesh	29/01/2026	04/02/2026
Sprint-1	Requirement Analysis & Setup	AI-2	Setting up development environment	High	Gandi Rajesh	29/01/2026	04/02/2026
Sprint-1	Requirement Analysis & Setup	AI-3	Researching AI itinerary generation approach	Medium	Gandi Rajesh	29/01/2026	04/02/2026
Sprint-2	AI Model Integration	AI-4	Connecting Generative AI API	High	Gandi Rajesh	05/02/2026	10/02/2026
Sprint-2	AI Model Integration	AI-5	Designing prompt structure for itinerary	High	Gandi Rajesh	05/02/2026	10/02/2026
Sprint-2	AI Model Integration	AI-6	Testing AI-generated responses	Medium	Gandi Rajesh	05/02/2026	10/02/2026

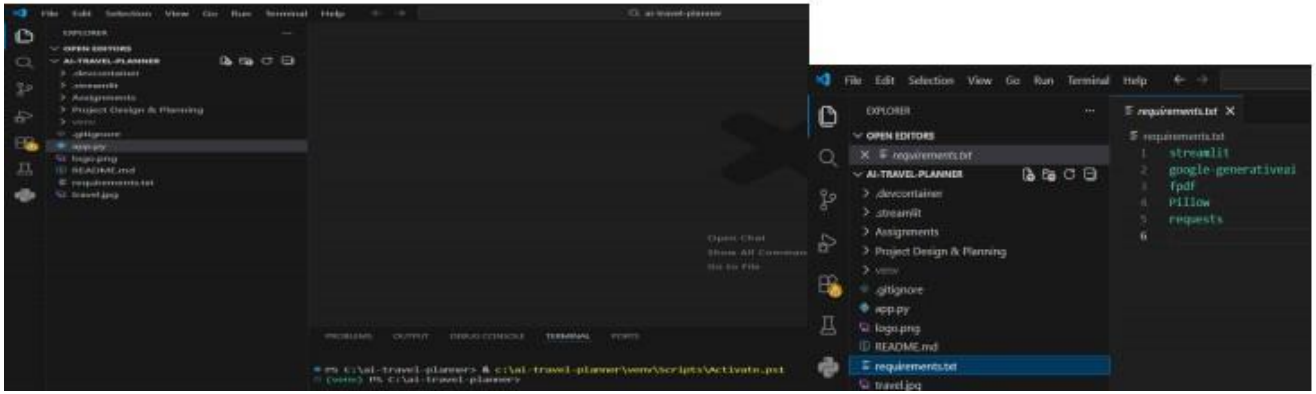
Sprint-3	Web Application Development	AI-7	Designing Streamlit UI	High	Gandi Rajesh	11/02/2026	15/02/2026
Sprint-3	Web Application Development	AI-8	Taking user inputs (destination, days, nights)	High	Gandi Rajesh	11/02/2026	15/02/2026
Sprint-3	Web Application Development	AI-9	Displaying generated itinerary	Medium	Gandi Rajesh	11/02/2026	15/02/2026
Sprint-4	Additional Features & Deployment	AI-10	Generating downloadable PDF itinerary	Medium	Gandi Rajesh	16/02/2026	19/02/2026
Sprint-4	Additional Features & Deployment	AI-11	Adding travel images via API	Low	Gandi Rajesh	16/02/2026	19/02/2026
Sprint-4	Additional Features & Deployment	AI-12	Final testing and bug fixing	High	Gandi Rajesh	16/02/2026	19/02/2026

Sprint Explanation

 Sprint 1 – Requirement Analysis & Setup

In this sprint, the project idea was finalized and the required technologies were identified. The development environment was set up, including installing Python, Streamlit, and required libraries. Research was conducted on how generative AI can be used to create travel itineraries

Screenshot:



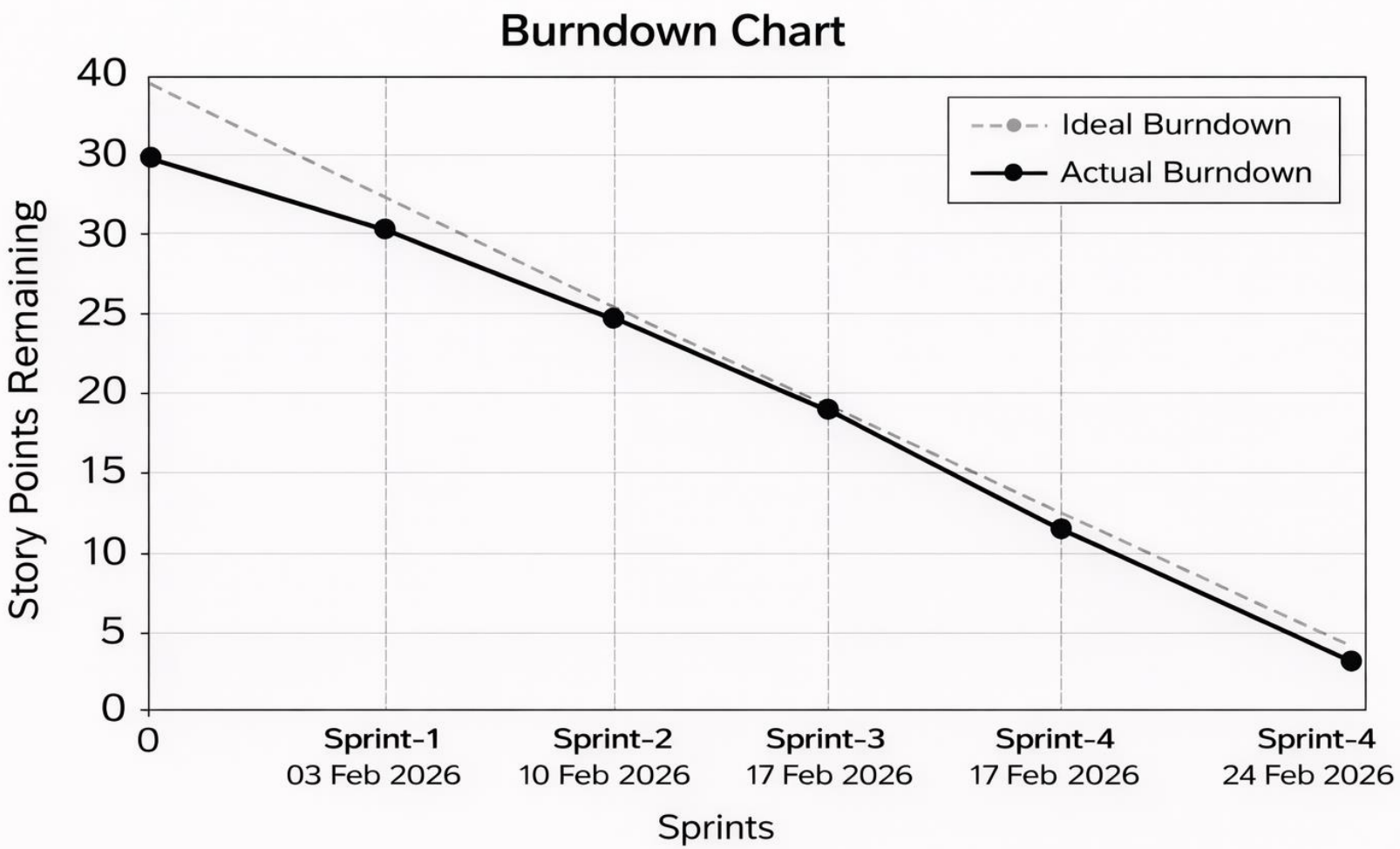
Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Functional Requirement (Epic)	Sub Requirement (Story/Sub-Task)	Total Story Points	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	User Registration	Registration through Form	6 Days	6 Days	29 Jan 2026	10	03 Feb 2026
Sprint-2	User Registration	Registration through Gmail Registration through LinkedIN	6 Days	6 Days	05 Feb 2026	10	10 Feb 2026
Sprint-3	User Confirmation	Confirmation via Email	6 Days	6 Days	12 Feb 2026	10	17 Feb 2026
Sprint-4	User Confirmation	Confirmation via OTP	6 Days	6 Days	12 Feb 2026	10	17 Feb 2026
Sprint-4	User Confirmation	Confirmation via OTP	6 Days	6 Days	19 Feb 2026	10	24 Feb 2026

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 10 points per sprint. Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{10}{10} = 1$$


Burndown Chart
Ideal Burndown
Actual Burndown
Story Points Remaining
40
30
30
25
20
15
10
5
0
0
Sprint-1
03 Feb 2026
Sprint-2
10 Feb 2026
Sprint-3
17 Feb 2026
Sprint-4
17 Feb 2026
Sprint-4
24 Feb 2026
Sprints

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