

Project Planning Phase

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

Date	20 February 2026
Team ID	LTVIP2026TMIDS52031
Project Name	Explore with AI: Custom Itineraries for Your Next Journey
Maximum Marks	5 Marks

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

Use the below template to create product backlog and sprint schedule

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (web/Mobile user)	Trip Planning & Itinerary Generation	USN-1	As a user, I can enter destination, duration, and preferences to plan my trip	I can submit travel details successfully.	High	Sprint-1
		USN-2	As a user, I can generate a personalized travel itinerary using AI	The system generates a detailed itinerary.	High	Sprint-1
		USN-3	As a user, I can view daily activities, attractions, and recommendations	Itinerary shows day-wise schedule.	High	Sprint-1
	Customization & Interaction	USN-4	As a user, I can modify or customize the generated itinerary.	Changes update the itinerary.	Medium	Sprint-2
		USN-5	As a user, I can regenerate the itinerary with different preferences.	New itinerary is generated based on updated inputs.	Medium	Sprint-2
	Output & Sharing	USN-6	As a user, I can export or copy the itinerary for future use.	Itinerary can be downloaded or copied.	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		USN-7	As a user, I can share the itinerary with others.	Share option works correctly.	Low	Sprint-3
Travel Agency	Client Support	USN-8	As a travel agent, I can generate itineraries for multiple clients	System handles different inputs for each client	Medium	Sprint-2

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	20	6 Days	01 Feb 2026	06 Feb 2026	20	06 Feb 2026
Sprint-2	20	6 Days	08 Feb 2026	13 Feb 2026	20	13 Feb 2026
Sprint-3	20	6 Days	15 Feb 2026	20 Feb 2026	2020	20 Feb 2026
Sprint-4	20	6 Days	22 Feb 2026	27 Feb 2026		27 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>