

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	16 February 2026
Team ID	LTVIP2026TMIDS51639
Project Name	Explore with AI: Custom Itineraries for Your Next Journey
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Input Interface	Enter travel destination
		Enter trip duration (days/nights)
		Select travel interests (sightseeing, adventure, food, relaxation, etc.)
FR-2	AI Itinerary Generation	Generate a day-wise personalized itinerary based on user inputs
		Include attractions, dining, and travel tips
FR-3	Itinerary Review & Customization	Review the generated itinerary
		Modify or adjust activities, timing, or remove items
FR-4	Export & Sharing	Export itinerary as PDF or copy to clipboard
FR-5	Error Handling	Validate inputs and provide user-friendly error messages
FR-6	Optional Recommendations	AI suggests hidden gems or additional attractions based on preferences

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The app must offer a simple, intuitive interface for users of all experience levels
NFR-2	Security	API calls to Gemini Pro should be secure; inputs/outputs should be safely handled
NFR-3	Reliability	The system must generate itineraries consistently without crashes
NFR-4	Performance	AI-generated itineraries should be returned in under 5 seconds (depending on destination and complexity)
NFR-5	Availability	The platform should maintain high uptime ($\geq 99.5\%$)
NFR-6	Scalability	System should handle multiple users generating itineraries

		simultaneously
NFR-7	Extensibility	System should allow future integration with features like multi-destination trips, chatbots, or travel booking APIs