

Project Initialization and Planning Phase

Date	28 January 2026
Team ID	LTVIP2026TMIDS26163
Project Title	Explore with AI: Custom Itineraries for Your Next Journey
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) report

The proposal report aims to transform travel planning using artificial intelligence, improving personalization and efficiency. It addresses the difficulty travelers face while organizing trips and promises smarter recommendations, reduced planning time, and a smoother user experience. Key features include AI-based itinerary generation and automated day-wise travel planning.

Project Overview	
Objective	The primary objective is to simplify travel planning by implementing AI techniques that generate personalized itineraries, ensuring faster and more convenient trip organization.
Scope	The project focuses on designing and developing an AI-powered system that generates day-wise travel itineraries based on user preferences, destination, and trip duration.
Problem Statement	
Description	Travelers face challenges in planning trips due to scattered information, lack of personalization, and time-consuming research across multiple travel platforms.
Impact	Solving these issues will reduce planning stress, save time, and enhance the overall travel experience by providing structured and personalized travel plans.
Proposed Solution	
Approach	The system uses a generative AI model to analyze user inputs such as destination and trip duration to automatically create a structured travel itinerary.
Key Features	<ul style="list-style-type: none"> - AI-generated personalized travel itineraries - Day-wise activity and attraction planning

	<ul style="list-style-type: none"> - Food and stay recommendations - Instant itinerary generation
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Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	Standard Laptop / PC
Memory	RAM specifications	8 GB RAM
Storage	Disk space for data, models, and logs	256 GB SSD
Software		
Frameworks	Python frameworks	Streamlit
Libraries	Additional libraries	google-generativeai, fpdf, requests
Development Environment	IDE	VS Code / Jupyter Notebook
Data		
Data	Source	User input prompts
	format	Text