

## Project Design Phase

### Solution Architecture

Date	15 February 2025
Team ID	LTVIP2026TMIDS83467
Project Name	Explore with AI: Custom Itineraries for Your Next Journey
Maximum Marks	4 Marks

### Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

### Solution Architecture Diagram:

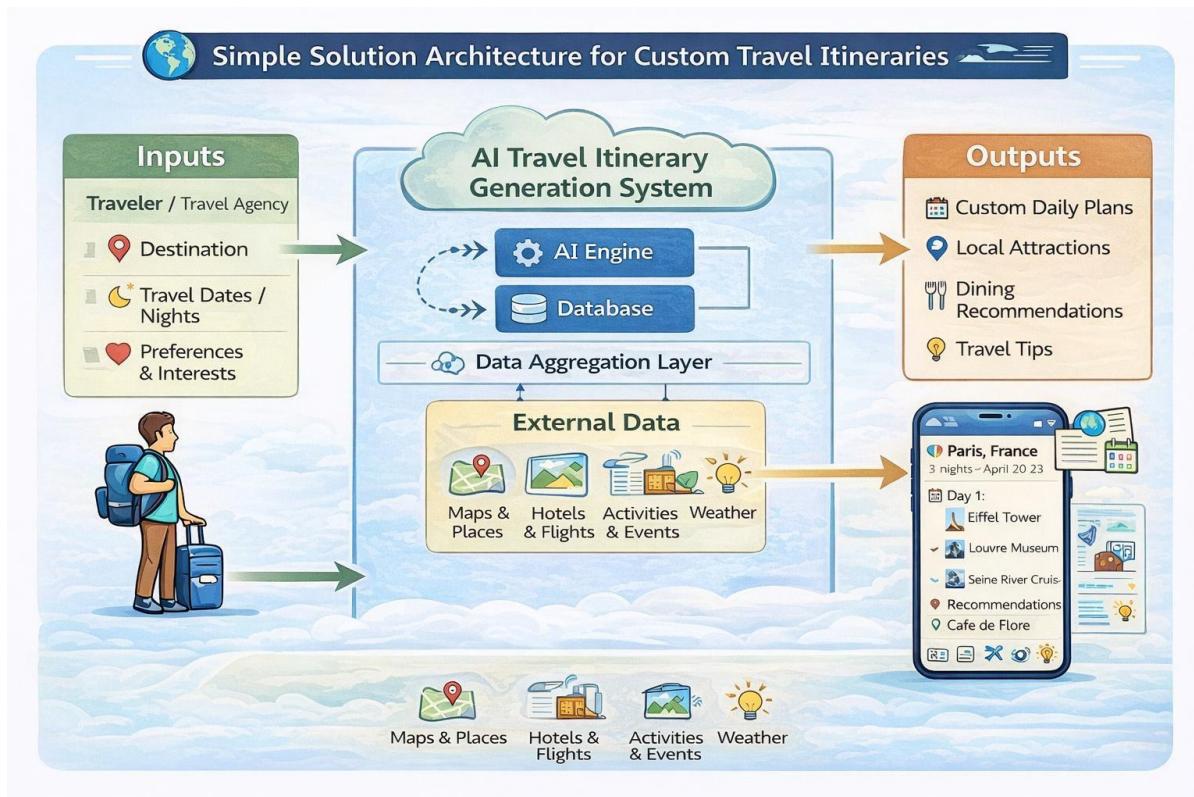


Figure 1: Explore with AI: Custom Itineraries for Your Next Journey Diagram

**WORKING:**

- The user enters the destination and number of nights/days in the application or website.
- The request is sent to the AI Travel Itinerary Generation System.
- The AI engine analyzes the destination and trip duration to plan activities for each day.
- The system collects required information from external sources like maps, hotels, activities, and weather data.
- Finally, the system generates a personalized travel itinerary with daily plans, attractions, and useful travel suggestions.