

Project Design Phase-II
Technology Stack (Architecture & Stack)

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| Date | 20 February 2026 |
| Team ID | LTVIP2026TMIDS52031 |
| Project Name | Explore with AI: Custom Itineraries for Your Next Journey |
| Maximum Marks | 4 Marks |

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Technology Stack for "Explore with AI: Custom Itineraries for Your Next Journey".

| Component | Tool or Technology | Purpose |
|----------------|---|---|
| Data Source | User Input (Destination, Duration, Preferences) | Collect travel details required for itinerary generation |
| AI Model | Gemini Pro (Google Generative AI API) | Generate personalized travel itinerary using A |
| Processing | Python | Process user inputs and interact with AI model |
| User Interface | Streamlit | Provide interactive web interface for users to enter details and view results |
| Storage | Local storage | Store inputs and generated itinerary temporarily |