

Project Design Phase Solution Architecture

Date	27 june 2025
Team ID	LTVIP2025TMID58003
Project Name	FlightFinder:Naigating Your Air Travel Options
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.

Example - Solution Architecture Diagram:

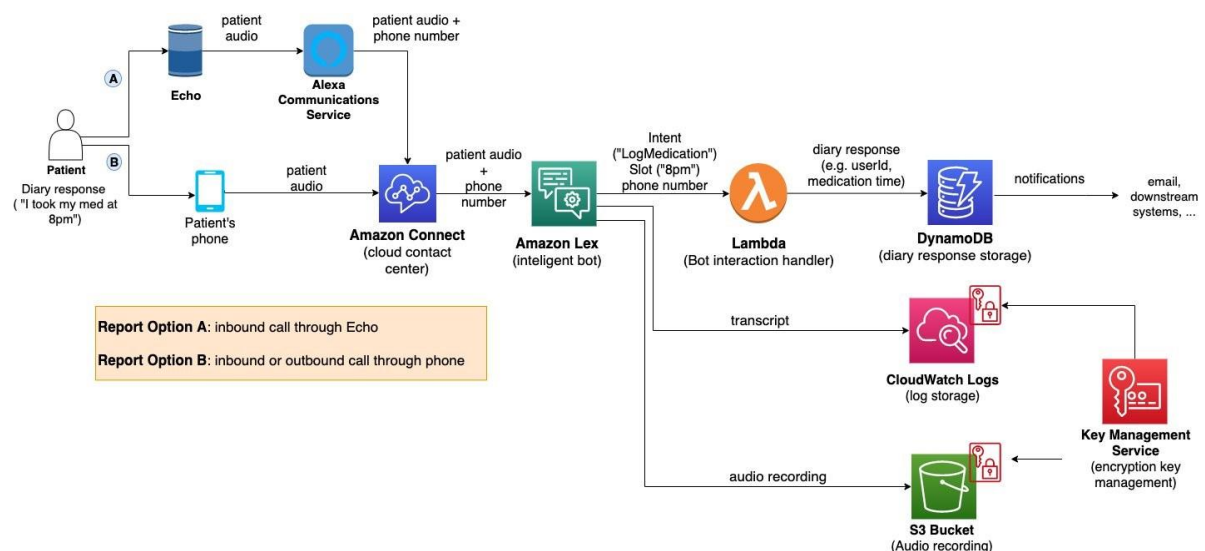


Figure 1: Architecture and data flow of the voice patient diary sample application

Solution architecture diagram for flight finder project:

User

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React Frontend (Client)

└─> Login / Register Page

└─> Flight Search Form

└─> Booking Interface

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▼ (HTTP Request via Axios)

Express Server (Node.js Backend)

└─> Authentication Routes

└─> Flight Management Routes

└─> Booking Routes

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Mongoose ODM

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MongoDB Atlas (Database)

└─> Users Collection

└─> Flights Collection

└─> Bookings Collection

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Admin & Flight Operator Dashboards

└─> Add / Edit / Delete Flights

└─> View Users / Bookings

Reference: <https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/>