

Project Design Phase Solution Architecture

Date	19 June 2025
Team ID	LTVIP2025MID49913
Project Name	Heritage Treasures: An In-Depth Analysis Of UNESCO World Heritag Sites In Tableau
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture links front-end user interfaces with back-end data. Tourists interact via a mobile AR app or web portal, sending requests to a REST API layer. The API integrates with an authentication service (to manage logins, supporting OAuth or social logins) and connects to a database for user profiles and preferences. It also fetches site data from a UNESCO data source (e.g. via the World Heritage Centre API) and stores analytics events to a data warehouse (for reporting). An ETL pipeline regularly updates the database with new site information and visitors' language preferences. The architecture may employ cloud-managed services (e.g. AWS or Azure) for scalability. This design bridges business needs and technology solution goals defining the system structure and data flow.

Example - Solution Architecture Diagram:

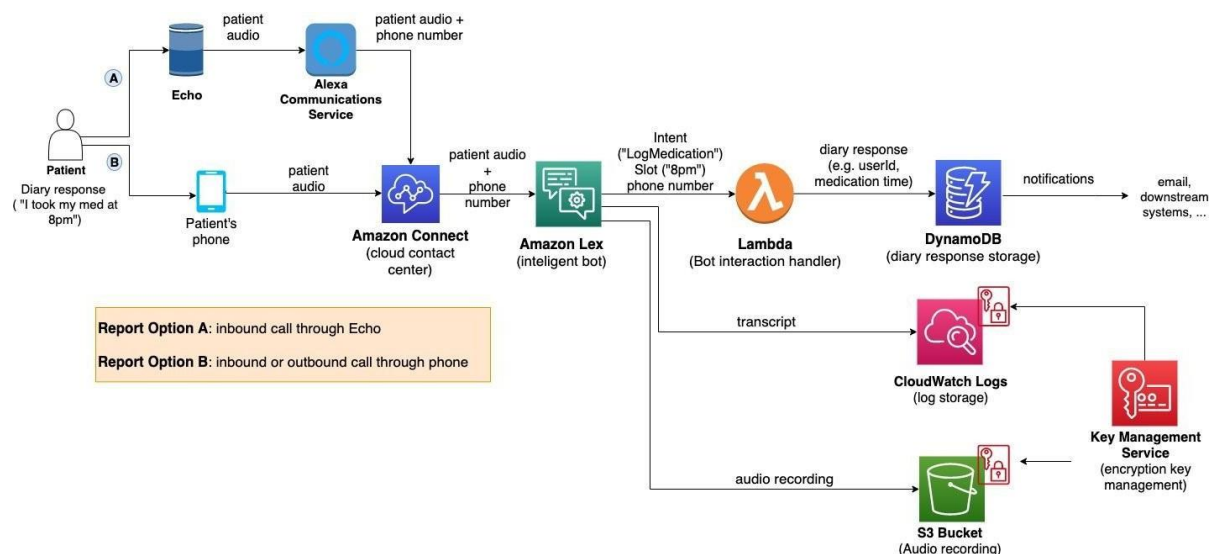


Figure 1: Architecture and data flow of the voice patient diary sample application

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