Project Design Phase

Solution Architecture

Date	27 june 2025
Team ID	LTVIP2025TMID59171
Project Name	HealthAI: Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	4 Marks

Solution Architecture: Health AI

Definition & Purpose:

Solution architecture in **Health AI** bridges the gap between healthcare needs and AI-driven technology. It defines the structure and components needed to develop an AI-based health assistant that can provide disease prediction, vitals monitoring, medical chat, and more.

The goals of the solution architecture in this project are to:

- Identify the **best technologies** to solve the problem of delayed and inaccessible healthcare support.
- Clearly describe the **software structure, components, and data flow** for all stakeholders.
- Break the system into phases like **Registration → Prediction → Monitoring → Reporting**.
- Provide **technical specifications** to guide development and ensure scalability, performance, and security.
- **Example - Solution Architecture Diagram:**

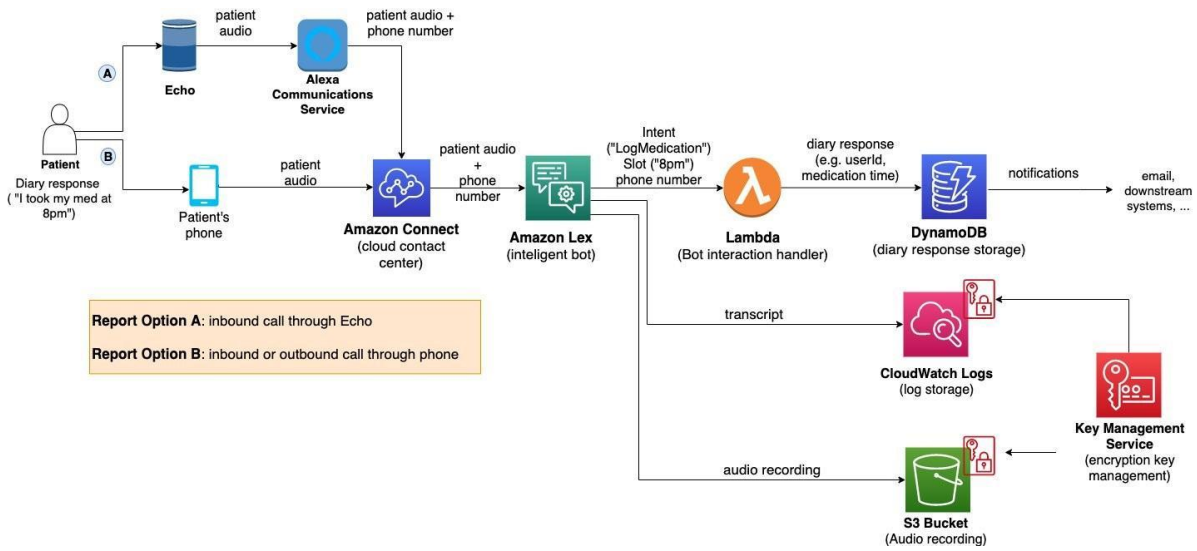

Figure 1: Architecture and data flow of the voice patient diary sample application

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