Project Design Phase Solution Architecture

Date	29 June 2025
Team ID	LTVIP2025TMID51084
Project Name	Cosmetic Insights: Navigating cosmetics Trends and Consumer Insights with Tableau
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:

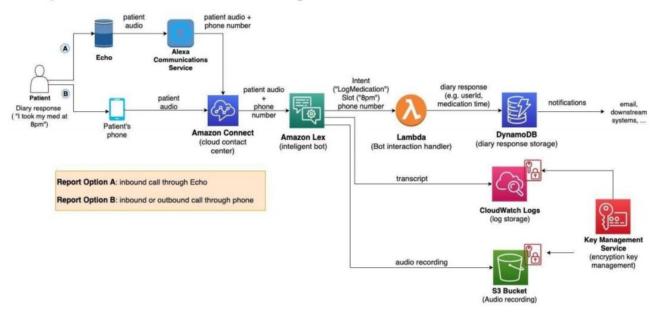


Figure 1: Architecture and data flow of the voice patient diary sample application

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

Solution Architecture Diagram:

Cosmetic Insights: Navigating Cosmetics Trends and Consumer Insights with Tableau Surveys & Feedback **ETL Tools Forms** E-commerce Platforms Data Processing & Aata Transformation Ingestion Data Cleaning Wrangling Scripts Social Media APIs Feature Engineering · Sentiment Analysis **CRM Systems** Tableau Dashbords Raw Layer (Data Lake) Users Processed Layer (Data Warenaus)