

Project Design Phase
Solution Architecture

Date	28 June 2025
Team ID	LTVIP2025TMID50995
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data
Maximum Marks	4 Marks

Solution Architecture:

Architecture Goals

1. Best Tech Solution:

- Leverage Tableau for interactive visualizations.
- Use Python/R for predictive analytics and data cleaning.
- Deploy on AWS for scalability.

2. Stakeholder Communication:

- Clearly visualize data flows and system components for manufacturers, policymakers, and investors.

3. Phased Development:

- Phase 1: Core dashboard (state-wise trends).
- Phase 2: Predictive modeling integration.
- Phase 3: Real-time API feeds for live data.

4. Specifications:

- Ensure GDPR/CCPA compliance for data handling.
- Optimize for 100+ concurrent users.

Example - Solution Architecture Diagram:

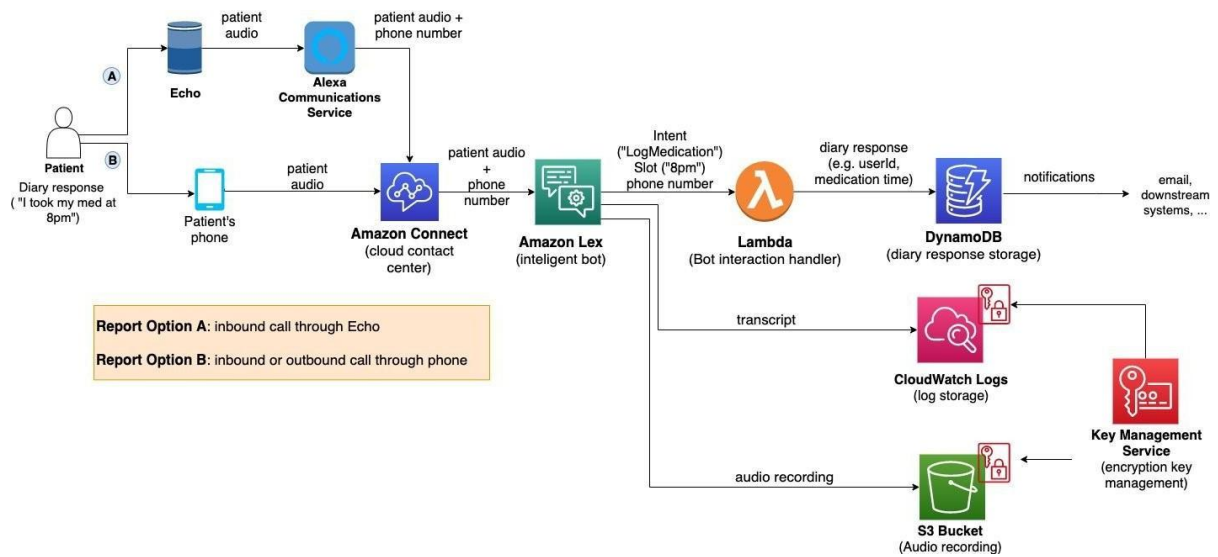


Figure 1: Architecture and data flow of the voice patient diary sample application