

## Project Design Phase

### Solution Architecture

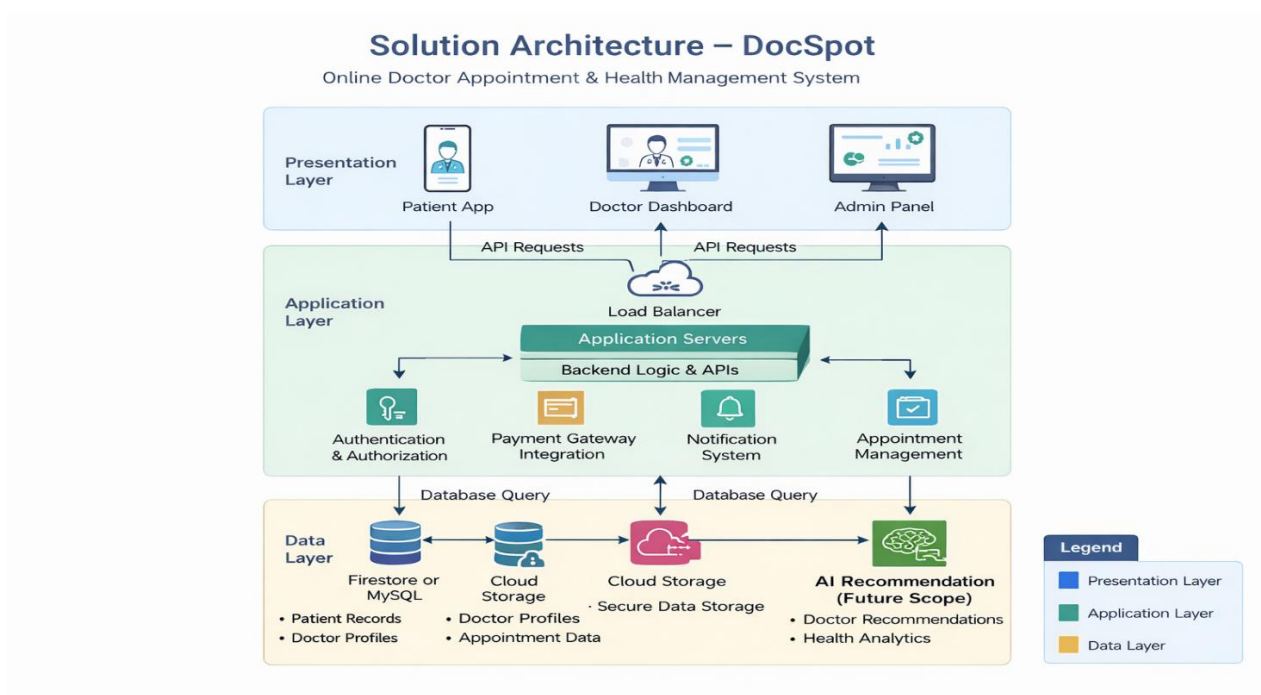
Date	16 February 2025
Team ID	LTVIP2026TMIDS34705
Project Name	DocSpot – Seamless Doctor Appointment Booking System
Maximum Marks	4 Marks

#### Solution Architecture – DocSpot :

DocSpot is designed to connect healthcare problems with digital technology using a simple and scalable system architecture.

- Technology Used: Flutter/Web (Frontend), Firebase/Node.js (Backend), Firestore/MySQL (Database), Cloud Storage for medical records.
- Architecture Type: 3-Tier Architecture
  1. Presentation Layer – Patient App, Doctor Dashboard, Admin Panel
  2. Application Layer – Appointment booking, authentication, payments, notifications
  3. Data Layer – Patient records, doctor details, appointment data
- Key Features: Online booking, digital medical records, video consultation, reminders, emergency support.
- Development Phases: Requirement analysis → Design → Development → Testing → Deployment.
- Goal: Provide a secure, scalable, and user-friendly healthcare management system.

#### Solution Architecture Diagram:



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