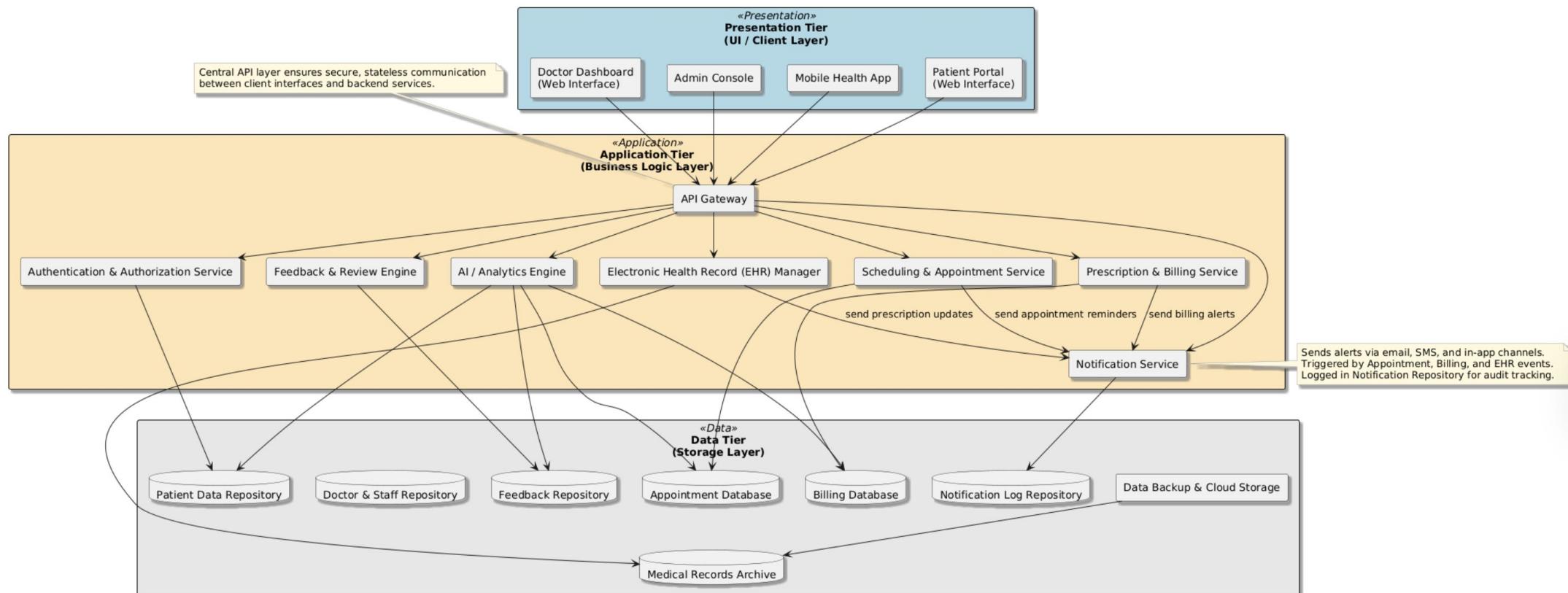


- **Architectural Mapping:**
- Patient Management: Patient, User (partial)
- Provider Management: HealthcareProvider, Administrator
- Appointments: Appointment, Consultation, ScheduleSlot
- EHR: ElectronicHealthRecord
- Prescriptions: Prescription
- Billing: Bill
- Feedback: Feedback, AnalyticsReport
- Support: NotificationService, Report

Virtual Healthcare System (VHS) - 3-Tier Architecture



Legend

Color Coding:

Presentation Tier — User Interfaces (Web & Mobile)
 Application Tier — Business Logic & Core Services
 Data Tier — Persistent Storage & Repositories

Principles:

- One-way data flow (top → bottom)
- Secure REST-based communication
- Role-based access control
- Cloud-backed resilience & recovery

Architectural Principle:

- All data flows are *uni-directional* to preserve encapsulation, modularity, and maintainability.