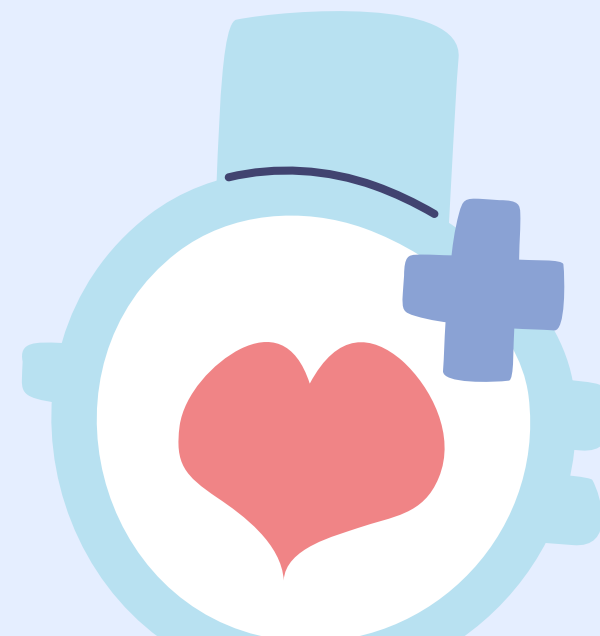


Sehaty: Milestone 1

Ahmed, Ali, Jacques, Omar,
Yarin, Karim, Raphael



Who we are?

We are SEHATY

What is Sehaty?

Sehaty is an advanced healthcare platform designed to enhance the way patients interact with clinics.

Why?

Sehaty aims to eliminate inefficiencies in healthcare access by reducing long wait times, optimizing clinic operations, and providing seamless patient-clinic connectivity.

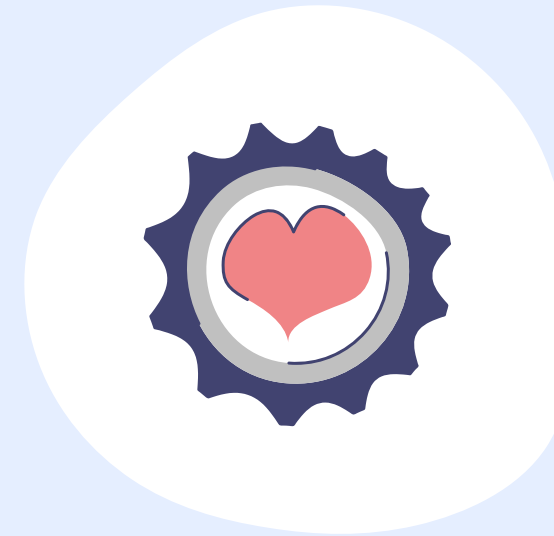
Important Features



Smart Clinic
Discovery



Queue &
Appointment
Management



Enhanced Clinic
Operations

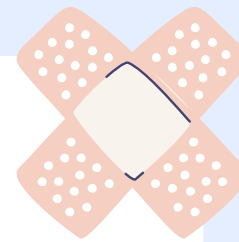


Patient History
& Records

Product Backlog

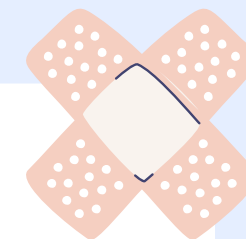


Functional Requirements

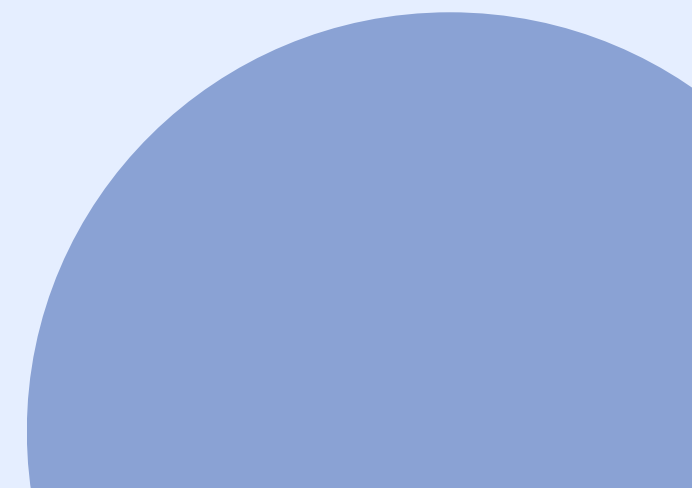
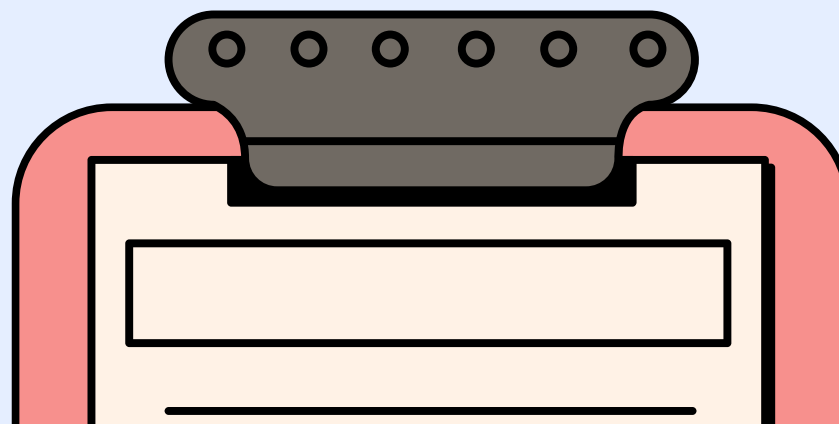


User Management - Signup, login, profile updates, and medical history uploads.
Clinic Discovery - Search by location, specialty, availability, and ratings.
Appointment & Queue Management - Bookings, real-time queue tracking, and notifications.
Patient History & Records - Access medical history, prescriptions, and lab results.
Medication Management - Set reminders, manage prescriptions, and track refills.

Non-Functional Requirements



Security - Data encryption, 2FA, and biometric authentication.
Performance - Fast page loading (<2s) and support for 10,000+ concurrent users.
Usability & Accessibility - User-friendly UI with iOS & Android support.
Scalability - Seamless expansion without performance drops.



Architecture – Components

Layered architecture: cohesion, scalability, maintainability

User Interface

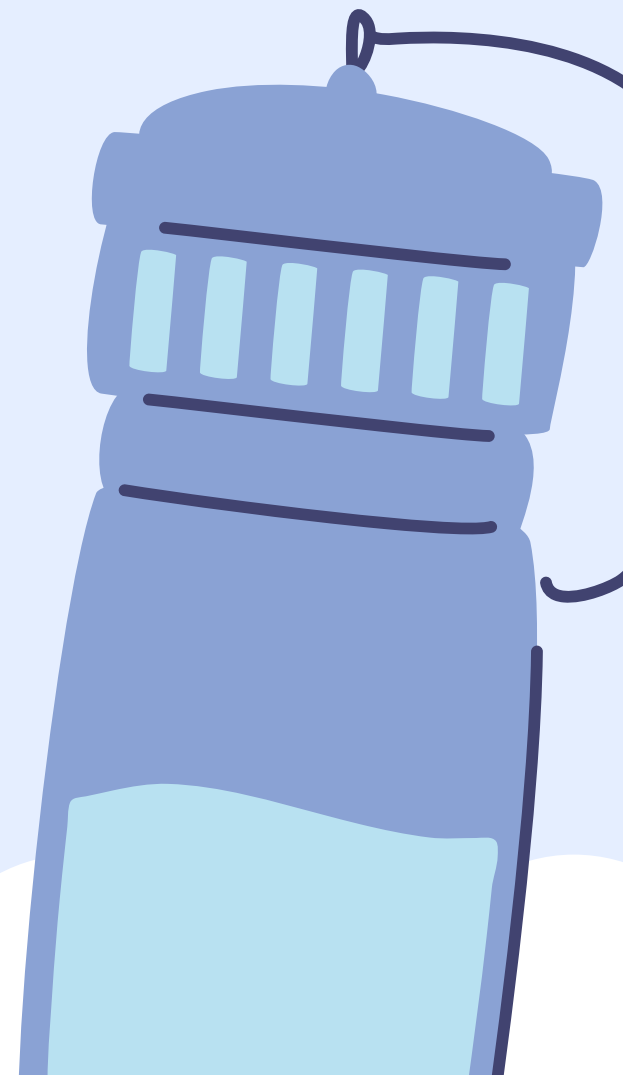
Patient, clinic, doctor, admin frontend

Business Logic

Queue management, notification system

Data Access

Responsible for all data interactions



Components – Continued

Layered architecture: cohesion, scalability, maintainability

External Services

Integration of external APIs



Authentication Services

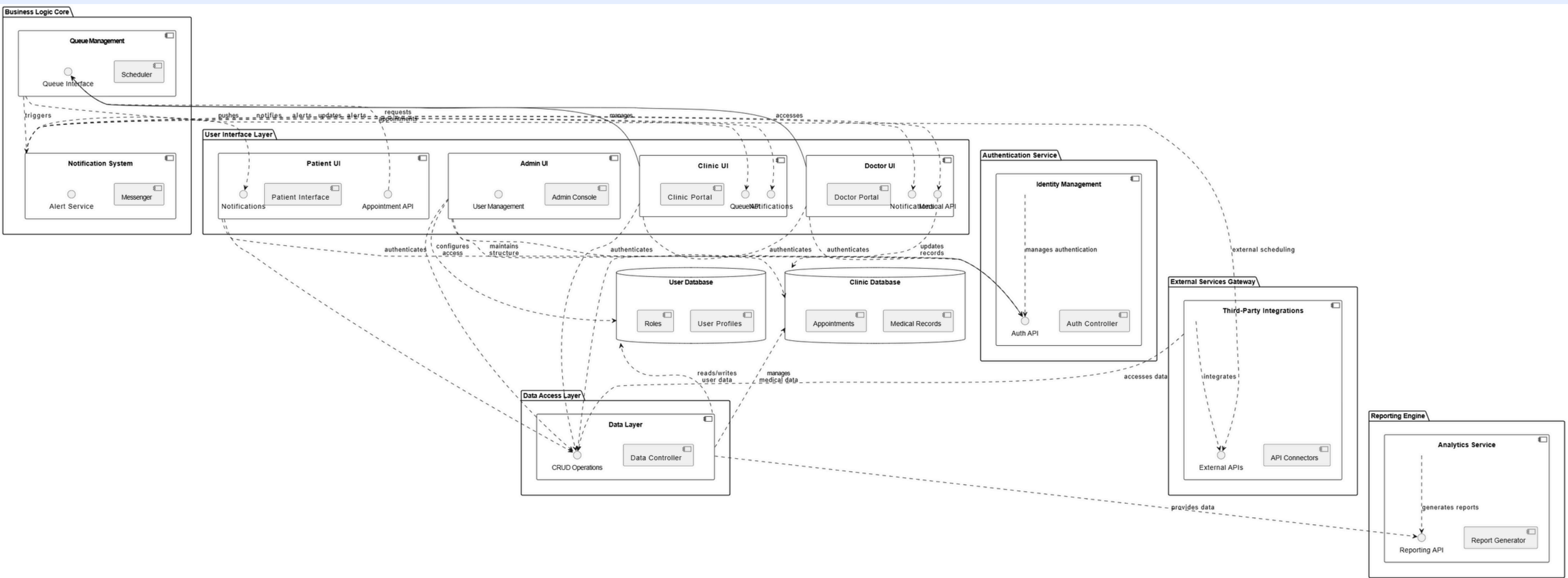
Centralized user authentication



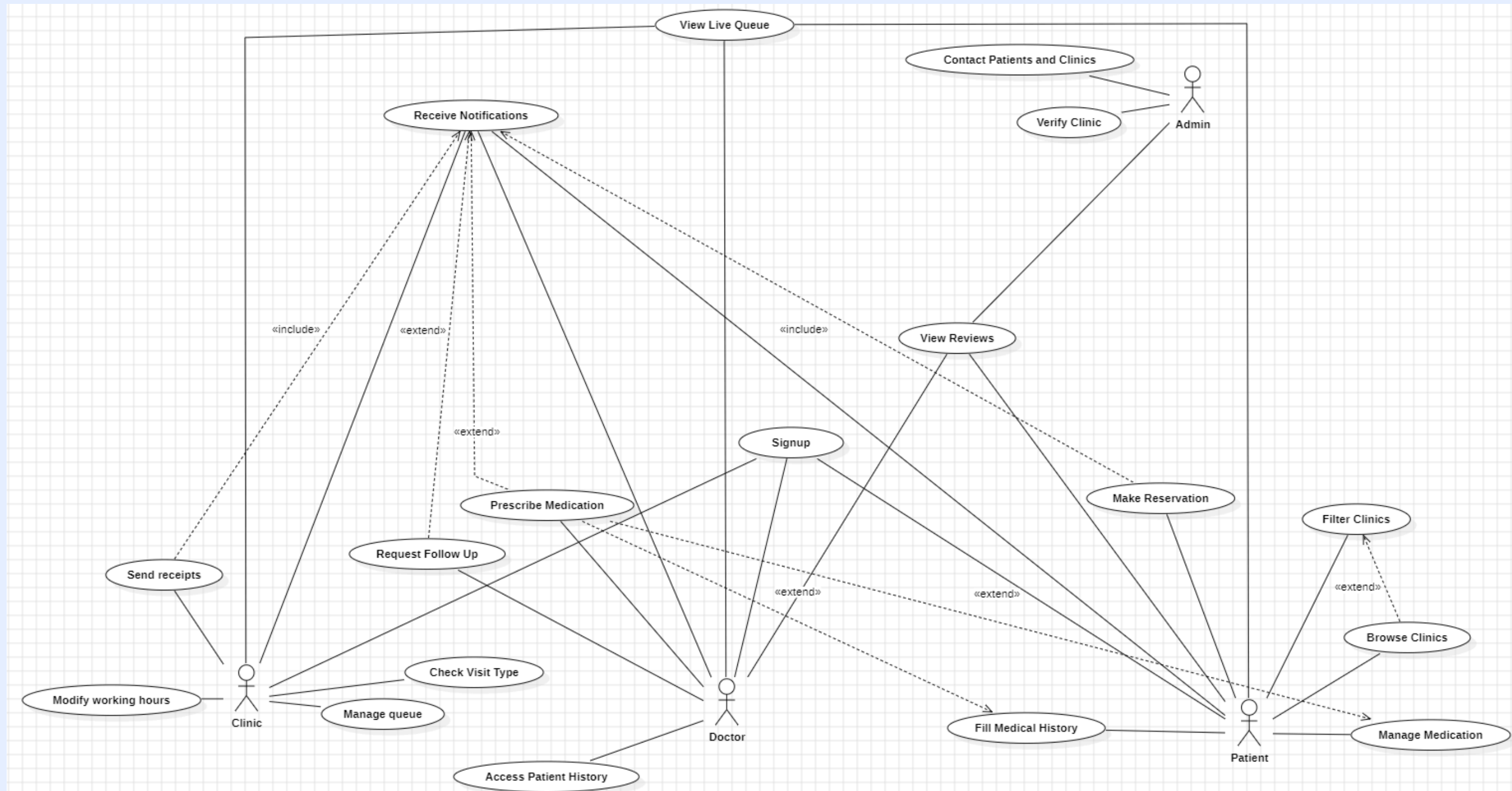
Reporting Engine

Data analysis

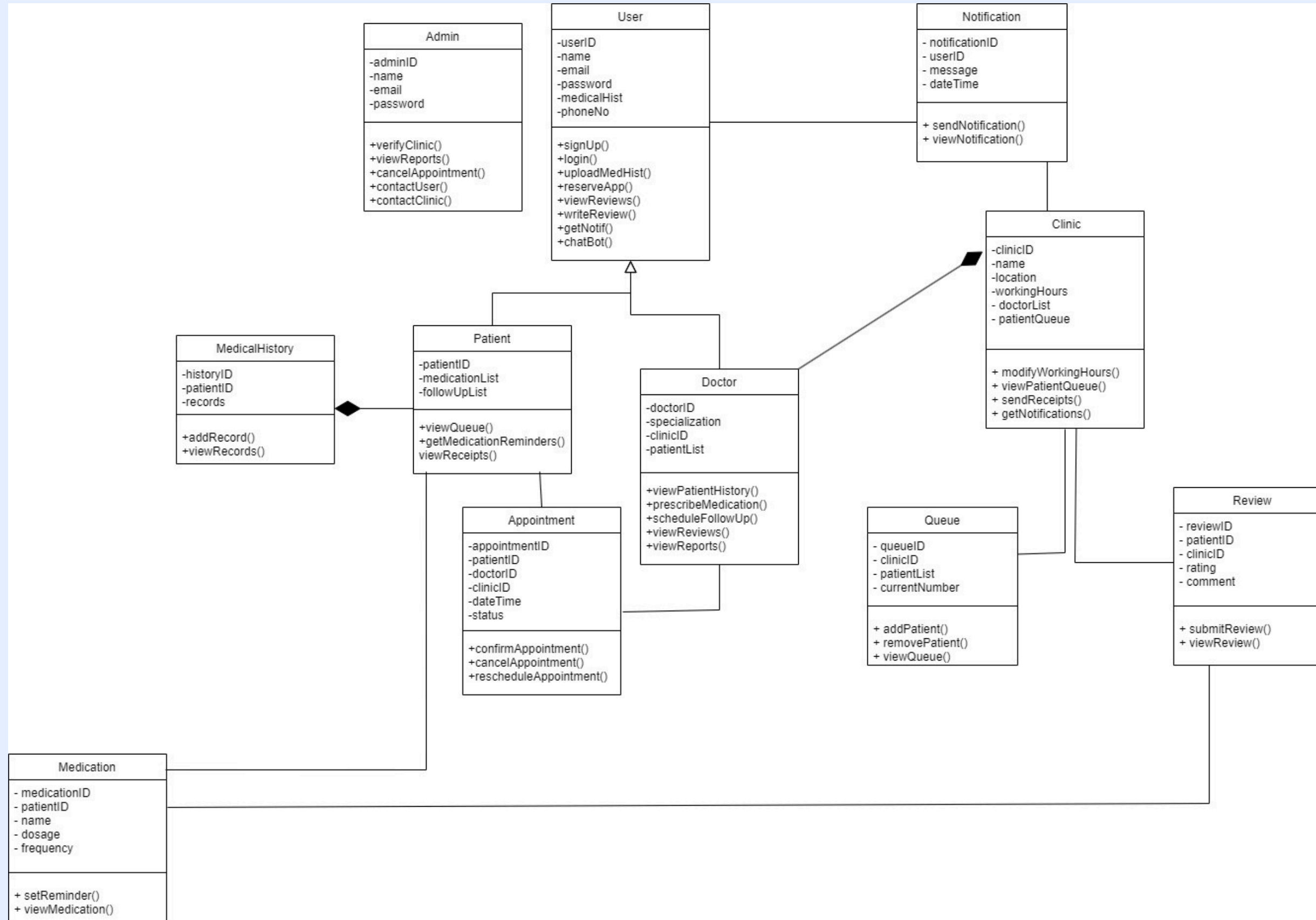
Component Diagram



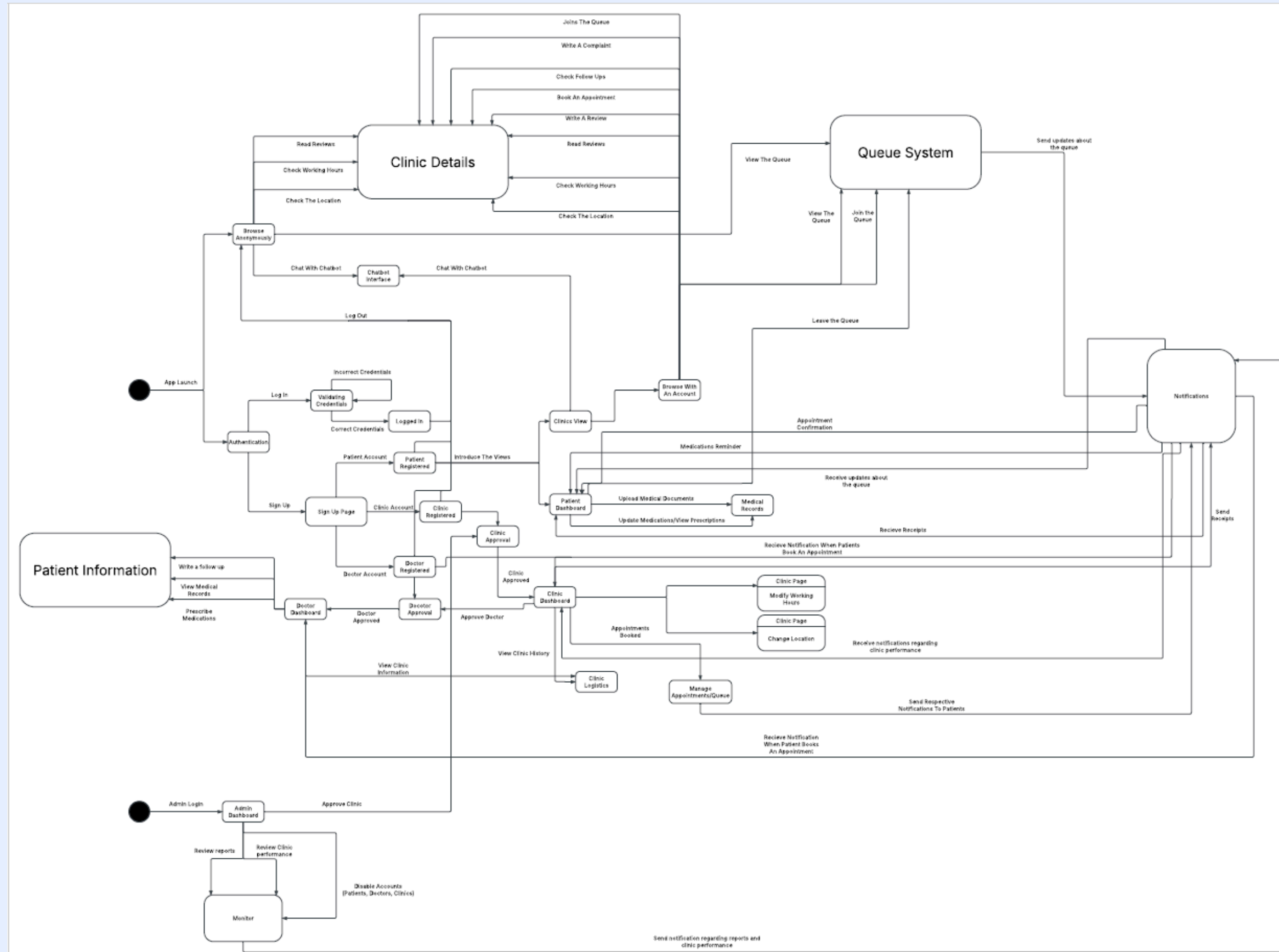
Use Case Diagram



Class Diagram



State Diagram



Identified Risks

Security

Sensitive patient data

* Breach of sensitive patient data (medical story, personal info) despite encryption and 2FA.

HIPAA

(Health Insurance Portability and Accountability Act) protecting sensitive patient health information

Performance

Performance issues

System downtime or performance issues impacting real-time services (live queue, notifications

Emergencies

More Identified Risks



Financial

Revenue Model Viability – Ensuring profitability while keeping the platform attractive to users.

Market Competition – Competing with existing healthcare platforms or hospital-owned systems.





Thank You

