

System Modeling and Design Document

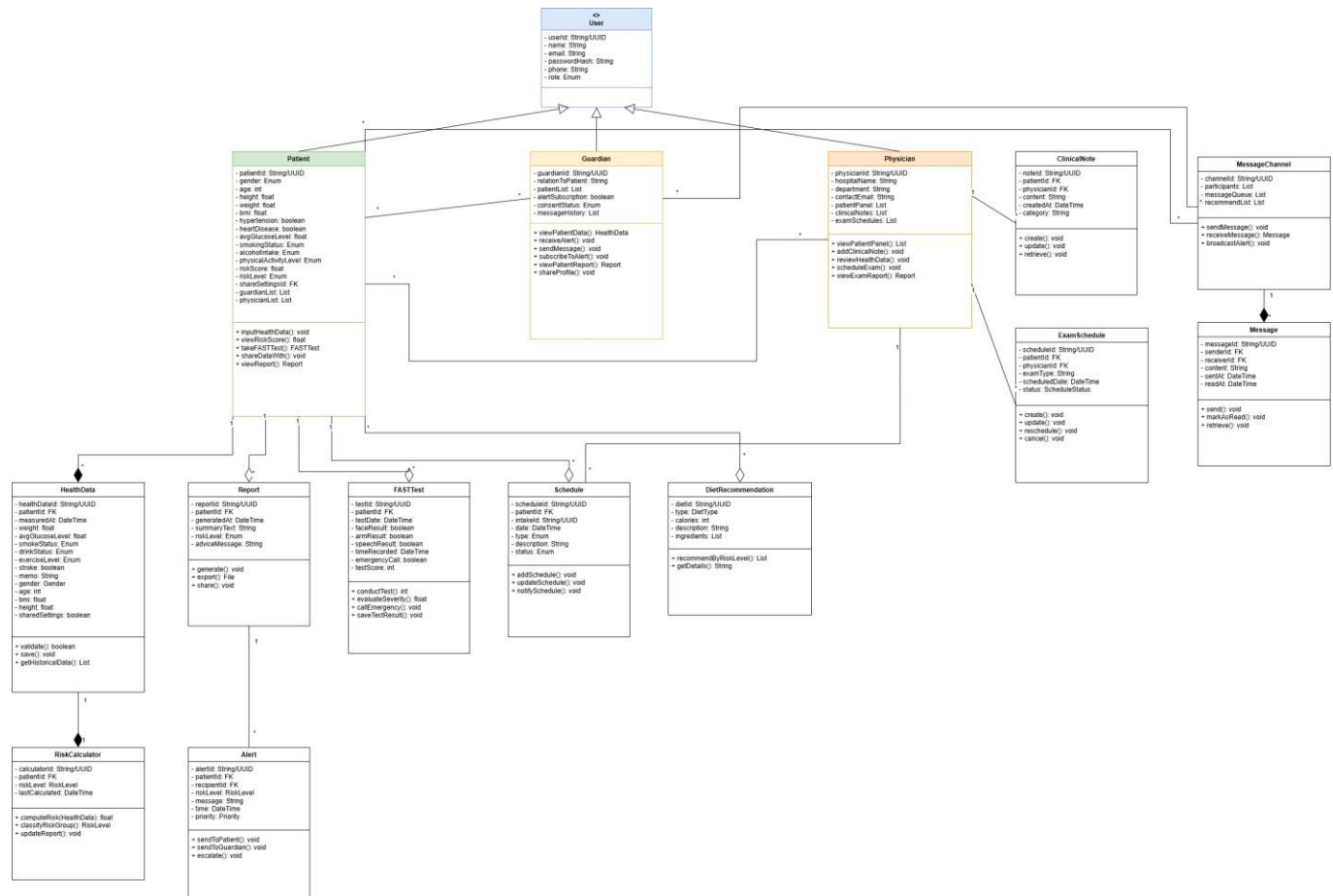
For <뇌졸중 예방
시스템>

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Course: Software Design
Date: 2025-11-18

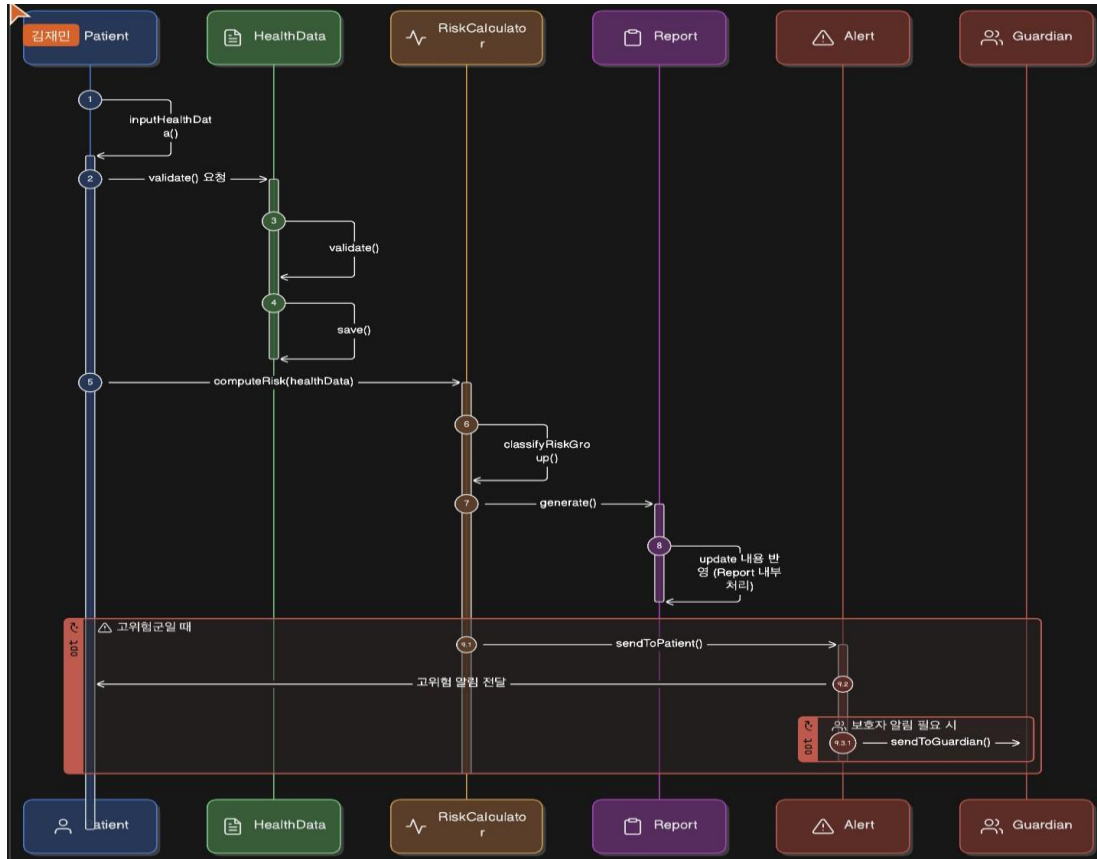
Phase 1 – System Modeling

1. Class Diagram

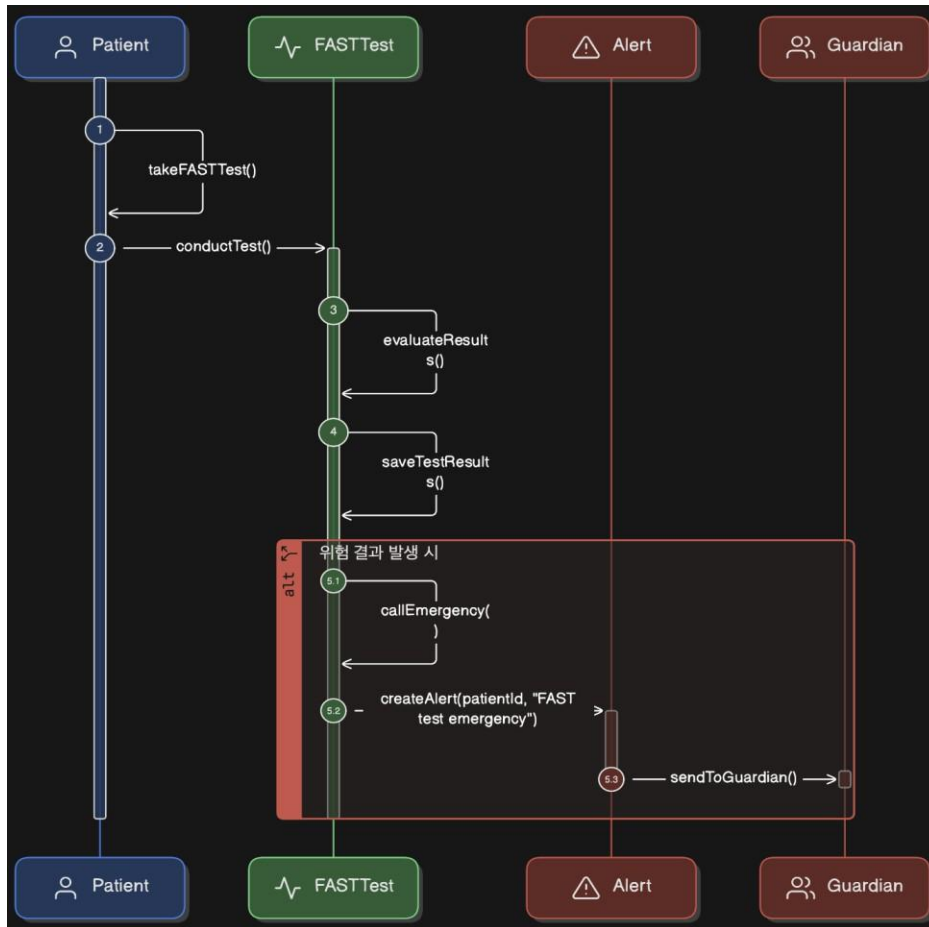


2. Sequence Diagram

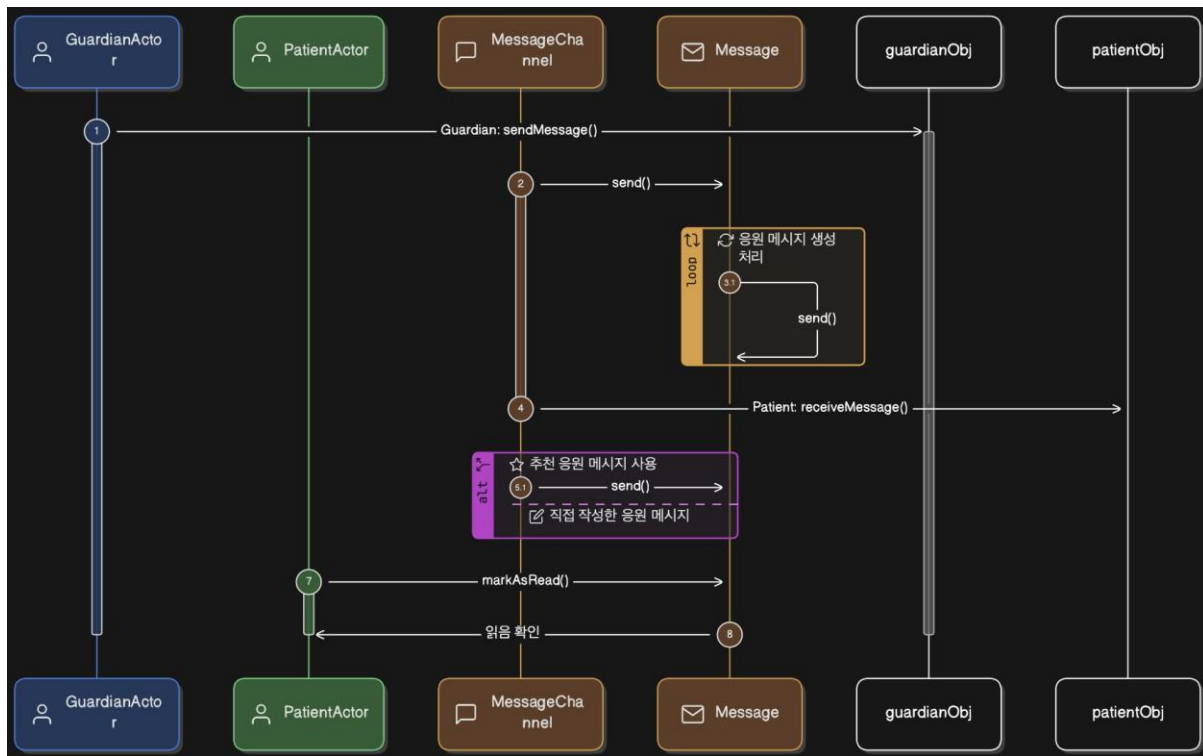
1. 건강데이터 입력 및 위험도 추출



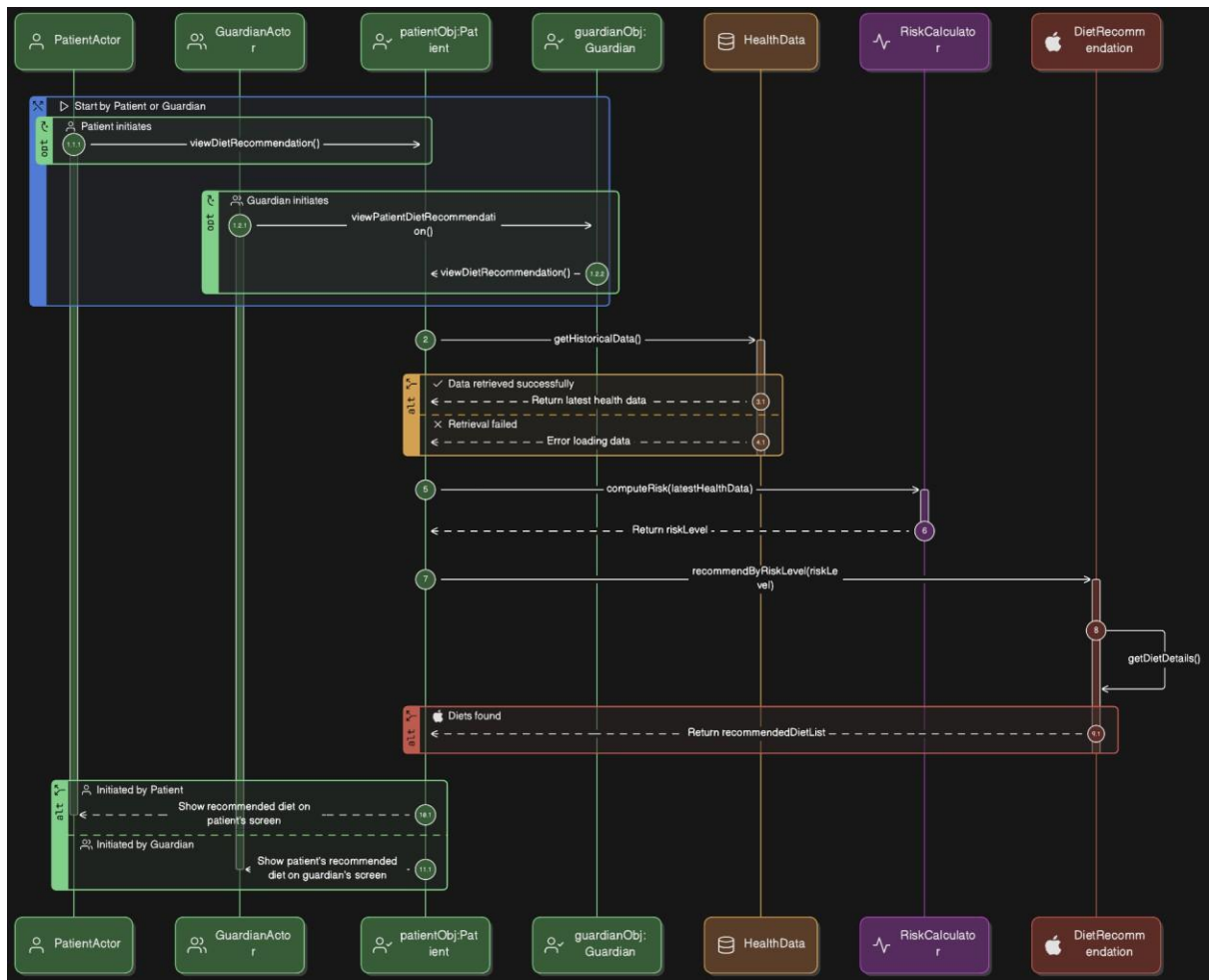
2. FAST 테스트 및 긴급 신고



3. EncourageMessage



4. DietRecommendation



Phase 2 – Architecture Design

Layered Architecture 선정 이유

- 클래스 다이어그램이 Domain 객체 중심으로 구성되어 있어 UI(View), Controller 역할 객체가 없으므로 MVC에 적합하지 않음
- 복잡한 도메인 로직 존재 (RiskCalculator, Report 등)
- 현재 도메인 중심 설계이며, presentation과 data layer로 확장하여 개발할 부분이 많기 때문에 유지보수가 용이한 Layered Architecture 선정

PatientDashBoardController
HealthDataController
FastTestController
ReportController
ScheduleController
MessageController
DietRecommendationController

****Data Layer****

PatientRepository
GuardianRepository
PhysicianRepository
HealthDataRepository
FastTestRepository
ReportRepository
ScheduleRepository
ClinicalNoteRepository
ExamScheduleRepository
MessageRepository
AlertRepository