

Health-Management-System

This presentation will cover the essentials of building a health management system using Spring Boot and Thymeleaf. We'll delve into the details of this powerful combination of technologies for creating robust and scalable **Health-Management-System** applications.



Meet the Team

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Objectives





Problem Statement

Despite significant advancements in technology, health records are still predominantly paper-based or fragmented across different systems. This leads to inefficiencies, errors, and reduced security. Our solution is to create a comprehensive and scalable health management system that streamlines health data management of patients and providers.

Architecture

Backend : Spring Boot

Frontend : Thymeleaf

Database : AWS MySQL (RDS)

Spring Security

Spring JPA

Docker

Kubernetes

Features

Electronic Health Records (EHRs)

Our system will facilitate the creation, retrieval, and sharing of electronic health records among healthcare providers.

Services

The system will enable patients to book an appointment, provide ambulance services, medicine services, free checkup services, bed facility etc.



Patient Registration

The system will enable patients to register and fill in their medical details that can be accessed by healthcare providers.

Search Functionality

We'll add a search bar to enable easier navigation and quick access to medical records.

Data Privacy and Security

1 Secure Access

The system will be accessible only by authorized users who have been granted access to specific functions.

2 Data Encryption

All data will be encrypted at rest and in transit using industry-standard encryption algorithms.

3 Audit Trail

An audit trail of all access, modification, and deletion of health records will be maintained for accountability and compliance with regulations.

Implementation Approach

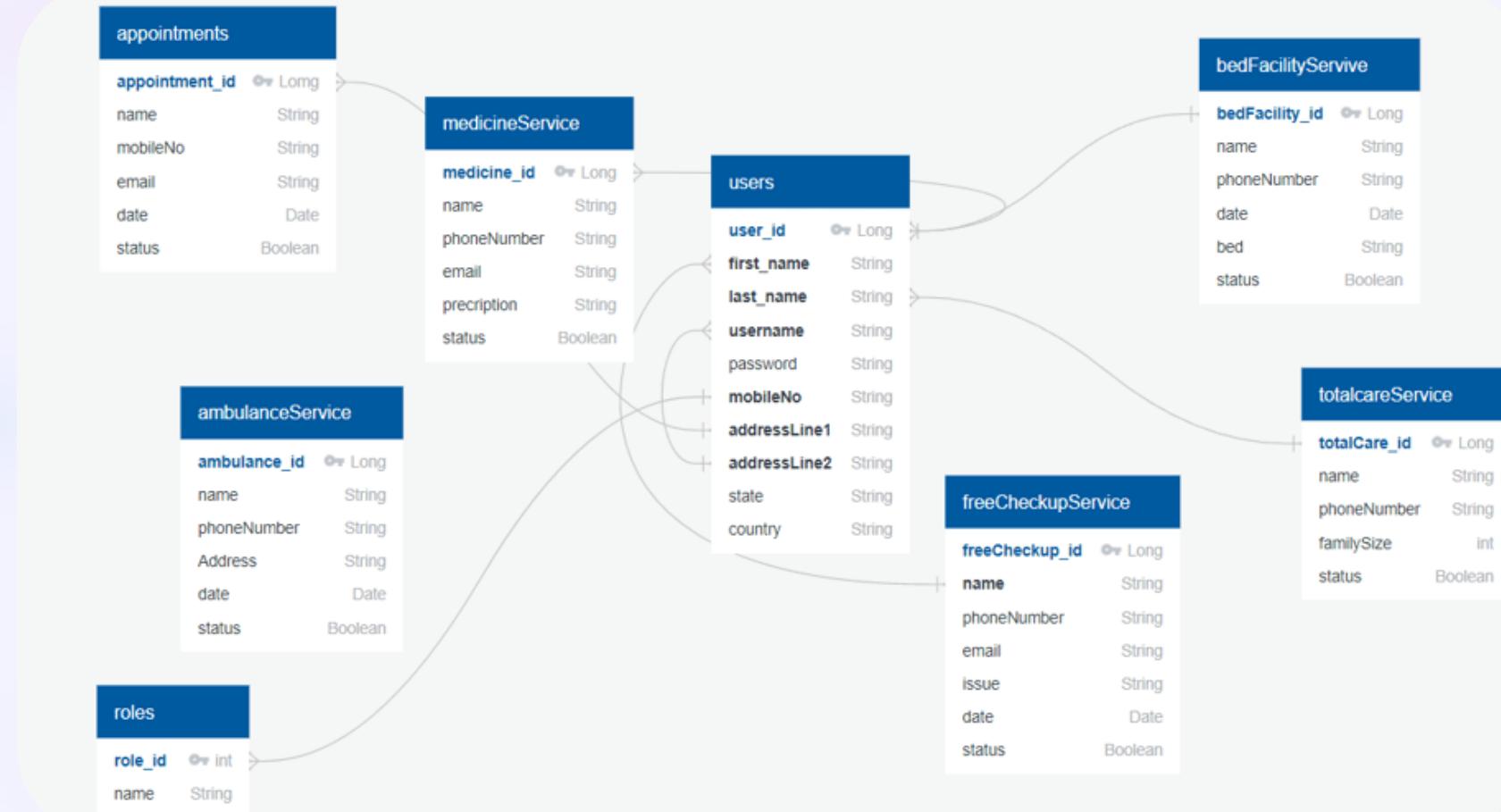
Agile Methodology

We'll use an Agile methodology for development, which will allow us to stay flexible and adapt to changing requirements. This will ensure the project meets the expectations of all stakeholders.

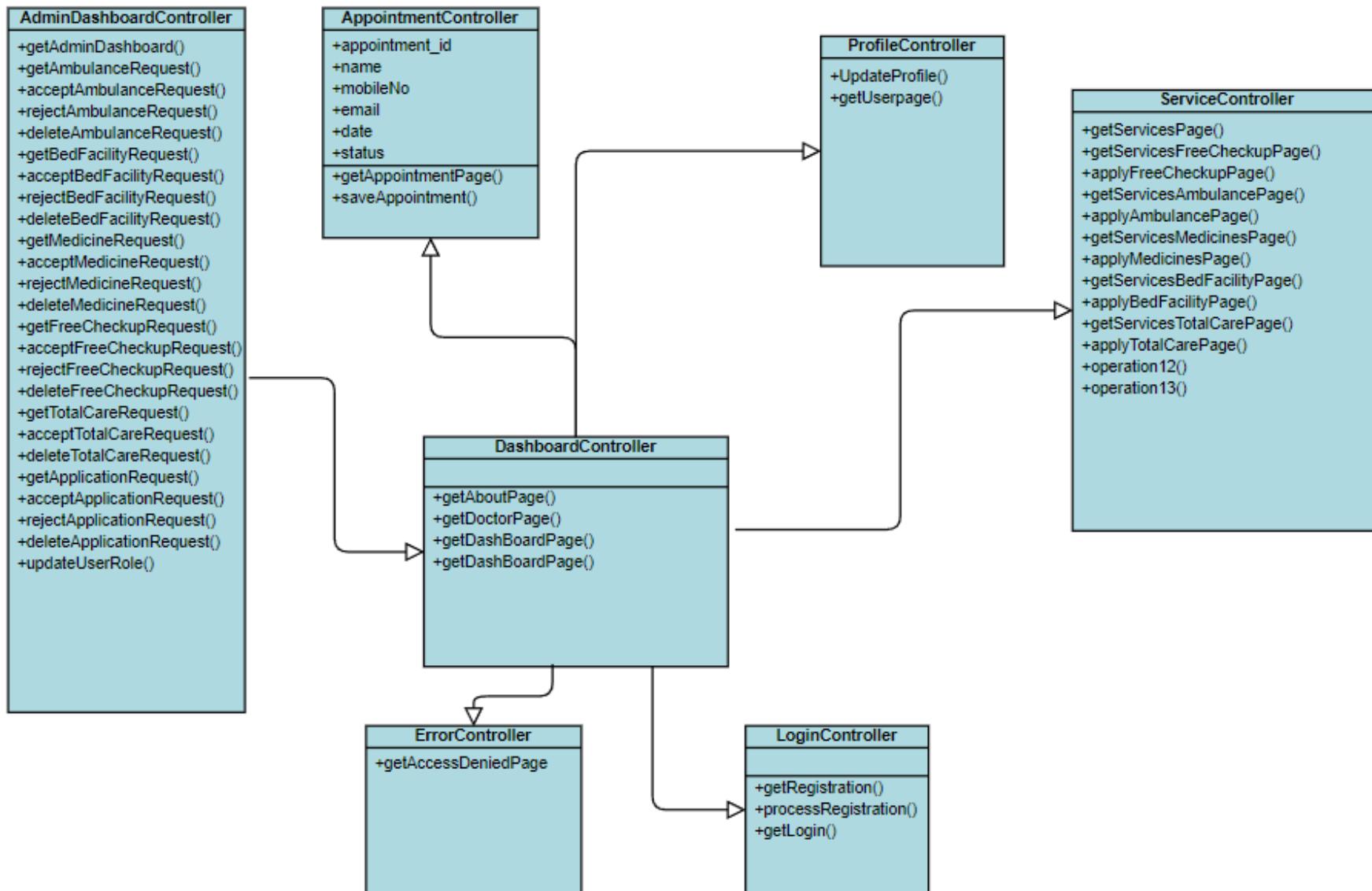
Cloud Infrastructure

A cloud-based infrastructure will be used, which will allow the system to scale up and down easily as workload changes. This will ensure the system can handle high traffic volumes and be highly available and reliable.

Entity-Relationship Diagram



Class Diagram



Use Case Diagram

