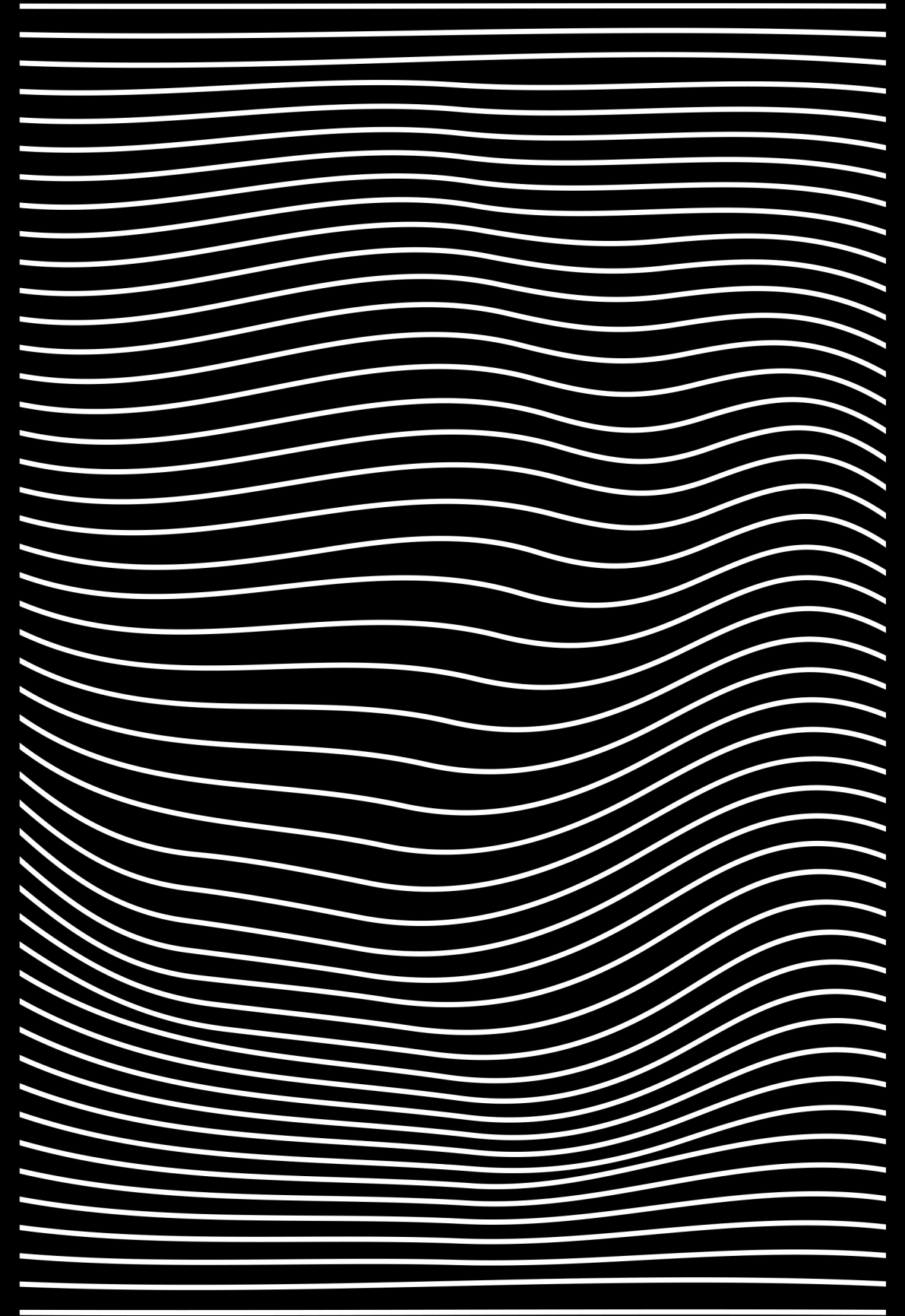


# TQS Final Project

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# Agenda

- 1 Concept
- 2 Stories
- 3 Architecture
- 4 Deployment
- 5 Quality Assurance

# Concept

- Apollo Care, system that facilitates scheduling and management of consultations for both clinic workers and patients alike
- Patient portal that allows the patient to schedule appointments and check past and future consultations
- Staff portal that manages consultations at the clinic
- Call screen for managing queues

# Stories

## **Schedule an appointment**

As a patient, I want to schedule a Cardiology appointment for next week

## **Check previous appointments**

As a patient, I want to check the appointments I had last month

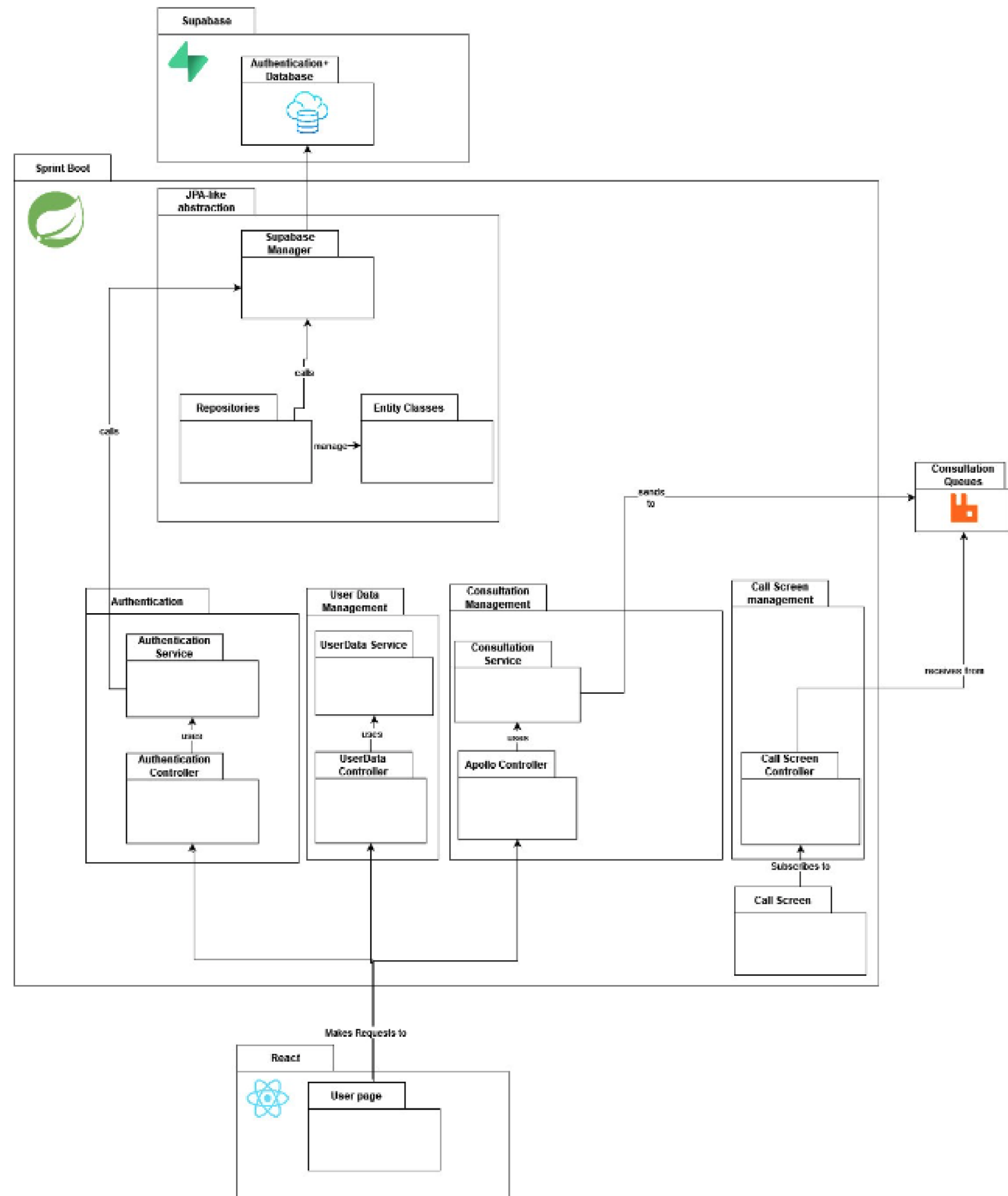
## **Checkin a patient**

As a staff member, I want to be able to checkin a patient for their appointment

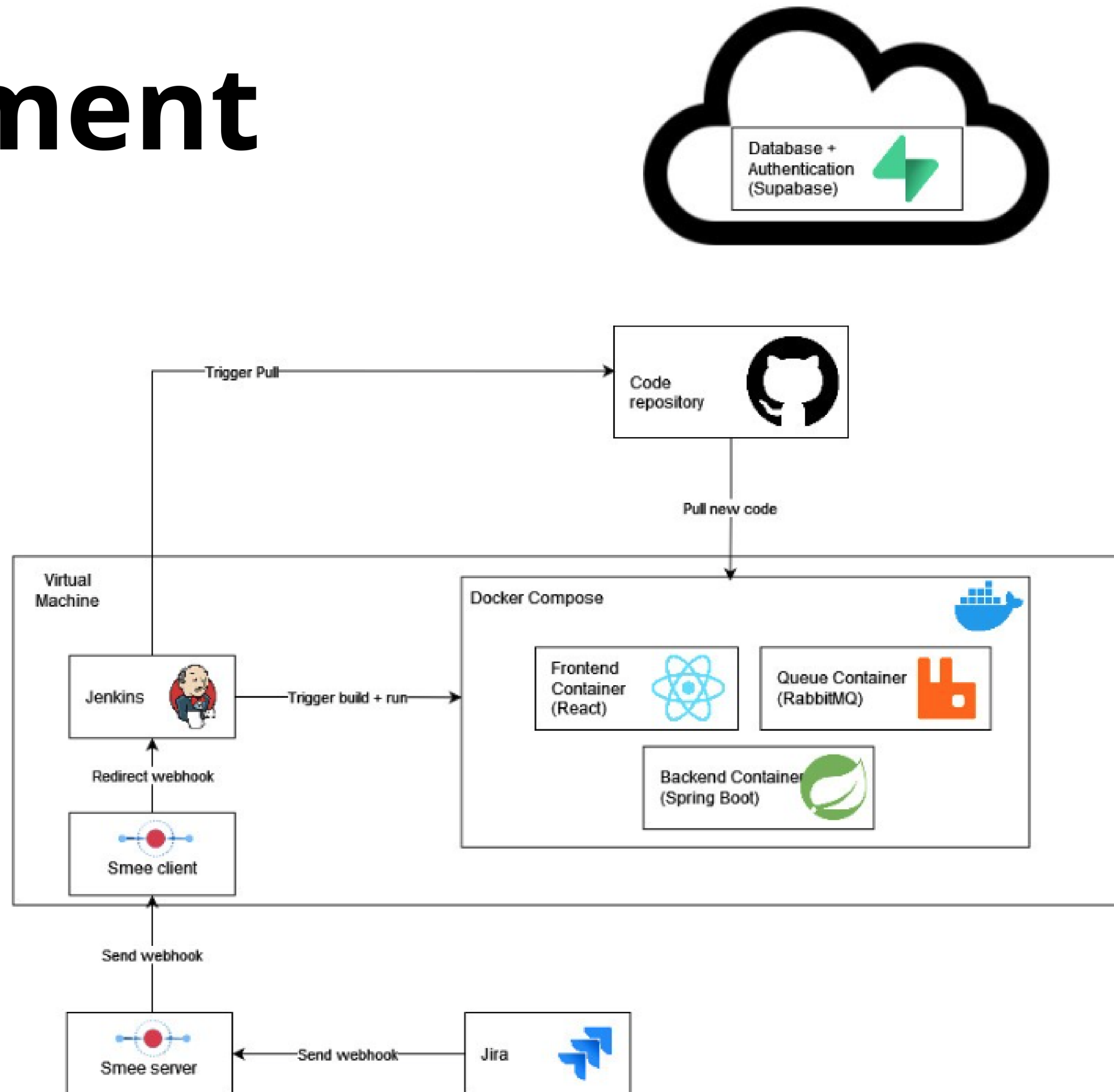
## **Schedule an appointment for a patient**

As a staff member, I want to schedule an appointment for a patient that is in the clinic at the moment

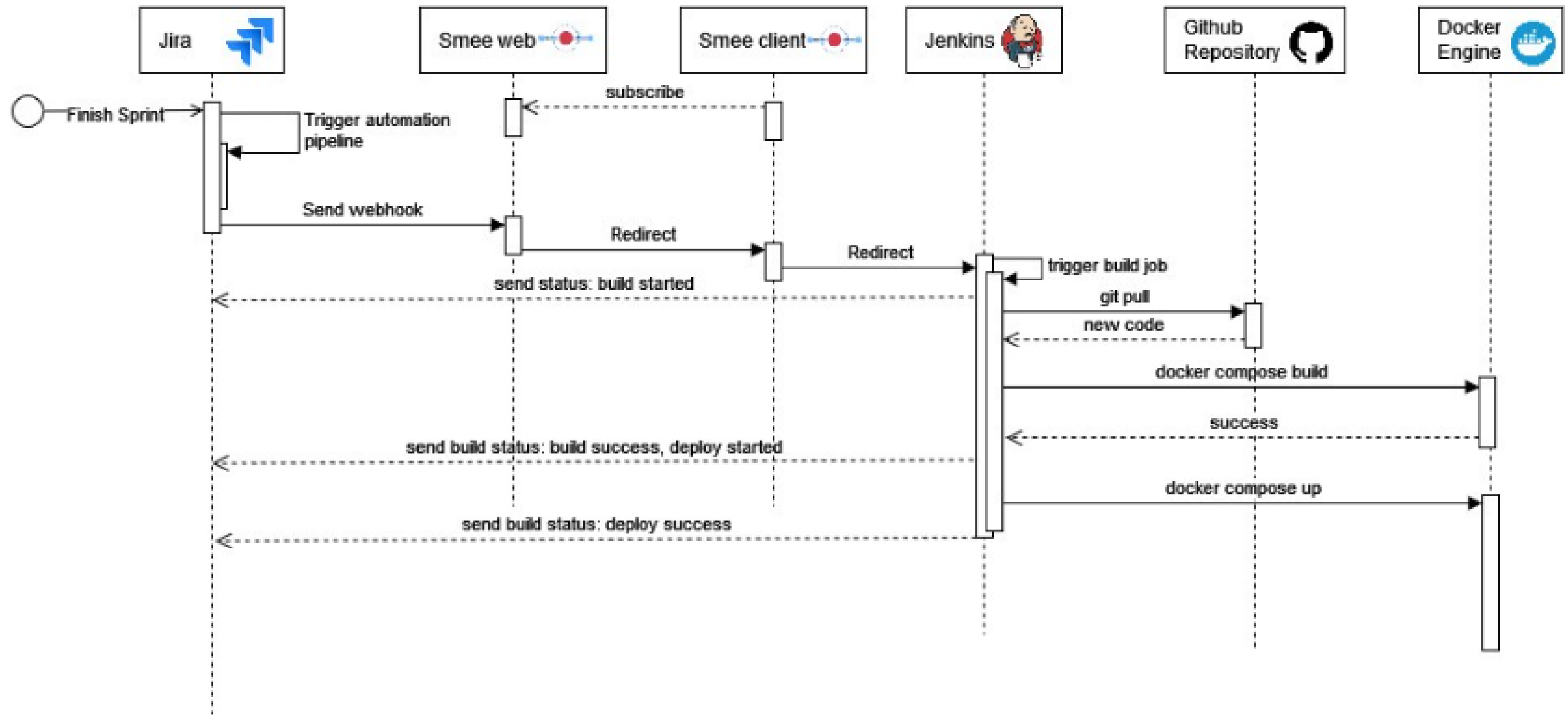
# Architecture



# Deployment



# Deployment



# Quality Assurance



# Code Quality Management

## Coding Style Guidelines

- Follows Oracle's Coding style
- Similar coding styles by devs

## Code Quality Metrics

- VSCode plugins
- SonarCloud

# Development workflow

## Code Review Process

- Reviewed by other team member.
- Focus on spotting issues missed by SonarCloud.
- Manual acceptance tests for code cleanliness and functionality.

## Definition of Done

1. Issue must have a score and description
2. Seperate branch related to the issue
3. Functional code with all unit tests passing
4. Pass SonarCloud's quality gate
5. Pull request must be created
6. Reviewed and accepted by other team member

# CI/CD pipeline and tools

## CI Pipeline

- Done on GitHub Actions
- Runs tests and reports to Jira and SonarCloud
- It fails if quality gate doesn't pass
- Jira created relevant tests
- SonarCloud reported in pull requests

## CD Pipeline

- Use Smee to handle VM restrictions
- Integration with Jenkins for fetching, rebuilding, and rerunning
- Dockerized components
- Containers orchestrated with docker compose

# **Software Testing**

**Functional testing**

**Unit tests**

**System and  
integration testing**

**Performance testing**

# Questions