

IKIGAI I-CARE



Presented by
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Origin of the creative idea



Hospitals generate massive amounts of data, from patient records to medical supplies and personnel scheduling. Many hospitals still rely on traditional manual systems to handle different functions, which can lead to errors and inconsistencies. These problems affect the quality of patient care, delay treatments, and increase costs.

I-CARE addresses these challenges by offering a comprehensive, centralized platform that unifies all hospital functions under one digital solution.

Project vision and mission

Hospital management system includes hospitals and its personnel. After researching and discussing we decided that rather than focusing on only one aspect of Hospital Management, **We should make a system that would facilitate patients, doctors and admins.**

01.

Reduce **manual work** and paperwork, allowing doctors to focus on patient care. This will result in more time efficient services and less human error.

02.

A **user-friendly scheduling system** that efficiently manages doctors ensuring no gaps or delays in patient care with appointment and surgery reminders.

03.

Unified **data storage** across departments enables better decision-making, giving administrators and medical professionals access to up-to-date patient and personnel records.

Salient Features

- Doctor can view and manipulate all **Appointment Details** and their status in real-time
- Doctor view **Duty Shifts** as well as **Workshop schedules**
- Patients can **Book and Cancel Appointments.**
- Patients can **Book a Room**, as well as **buy their Prescriptions.**
- Admin can **schedule shifts and workshops.**
- Admin **manages doctors and tracks inventory.**



Doctor Dashboard

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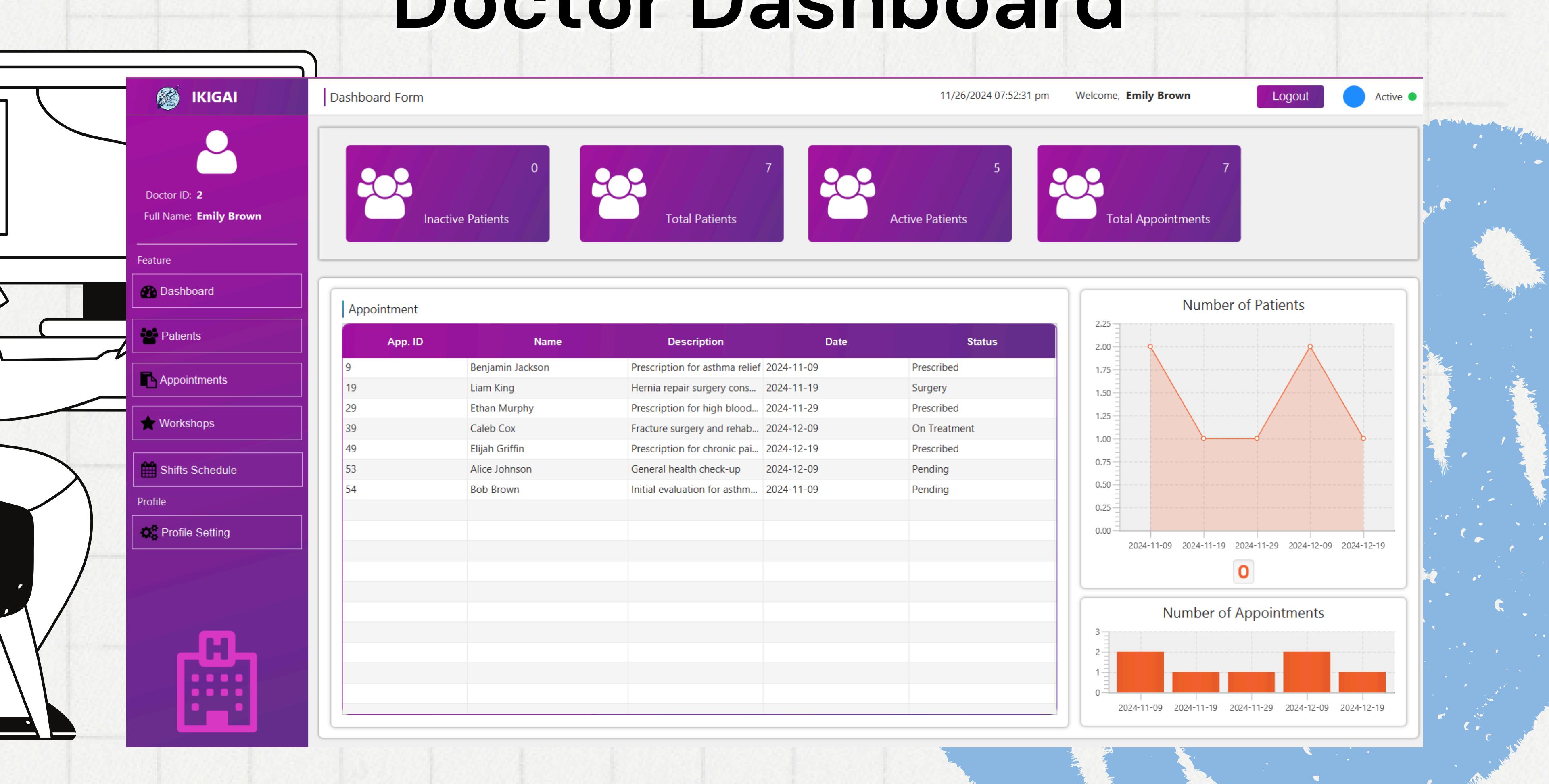
Doctor ID: 2
Full Name: **Emily Brown**

Feature

- Dashboard
- Patients
- Appointments
- Workshops
- Shifts Schedule

Profile

- Profile Setting



Dashboard Form

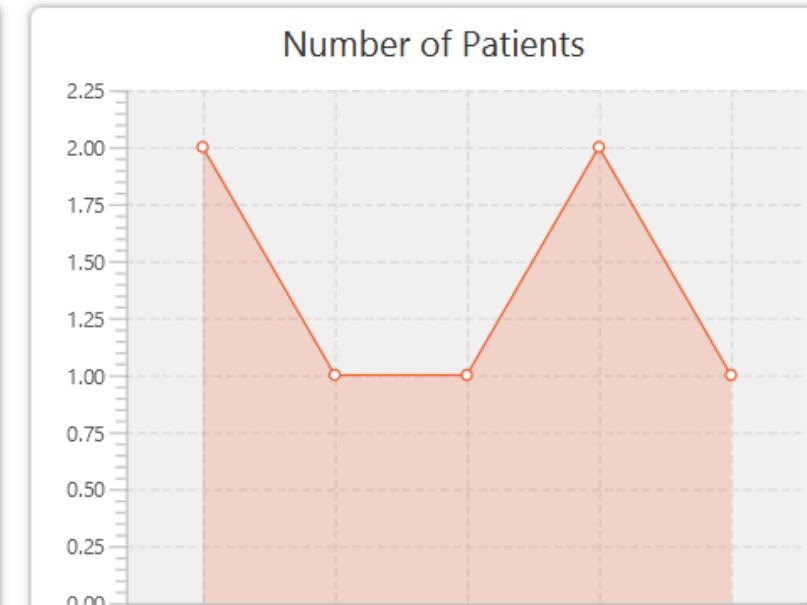
11/26/2024 07:52:31 pm Welcome, **Emily Brown** Logout Active

Inactive Patients: 0 Total Patients: 7 Active Patients: 5 Total Appointments: 7

Appointment

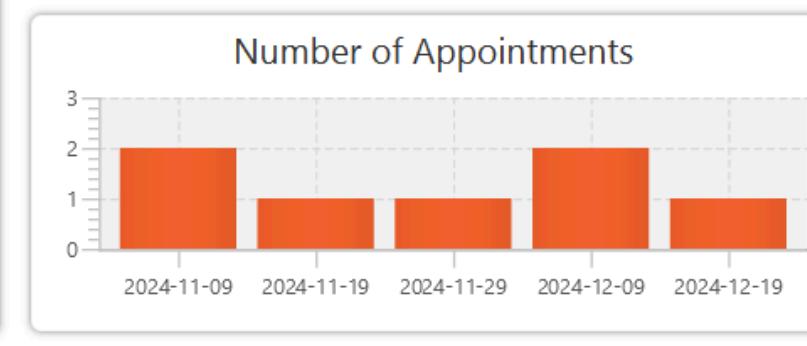
App. ID	Name	Description	Date	Status
9	Benjamin Jackson	Prescription for asthma relief	2024-11-09	Prescribed
19	Liam King	Hernia repair surgery cons...	2024-11-19	Surgery
29	Ethan Murphy	Prescription for high blood...	2024-11-29	Prescribed
39	Caleb Cox	Fracture surgery and rehab...	2024-12-09	On Treatment
49	Elijah Griffin	Prescription for chronic pai...	2024-12-19	Prescribed
53	Alice Johnson	General health check-up	2024-12-09	Pending
54	Bob Brown	Initial evaluation for asthm...	2024-11-09	Pending

Number of Patients



0

Number of Appointments



Patient Dashboard

Admin Dashboard

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DASHBOARD

Welcome, Admin

Log Out

Welcome Admin!

+

Admin Details

Admin ID	First Name	Last Name	Email	Password	Phone no.
1	Alice	Johnson	alice.j@example.com	password123	555-1001

- Feature
- Doctor Management
- Schedule Shift
- Schedule Workshops
- Inventory
- Supply Request

Main Usecase

Scope: Appointment Scheduling System

Level: User goal

Primary Actor: Patient

Stakeholders and Interests:

1. Patient: Needs to schedule a convenient appointment with a doctor.

2. Doctor: Relies on properly scheduled appointments.

3. System Administrator: Wants no clashes occur for a smooth flow

Preconditions:

1. The patient is registered and logged into the system.
2. The doctor's schedule is up to date and available in the system.

Postconditions:

1. The appointment is successfully scheduled
2. Both the patient and doctor are notified.

Main Success Scenario

01

The patient opens the Appointments form. They select the doctor and a date they want to schedule an appointment along with a brief description.

02

The System checks if the doctor's schedule allows for another Appointment to be made. If it's available it shows all the details before confirmation.

03

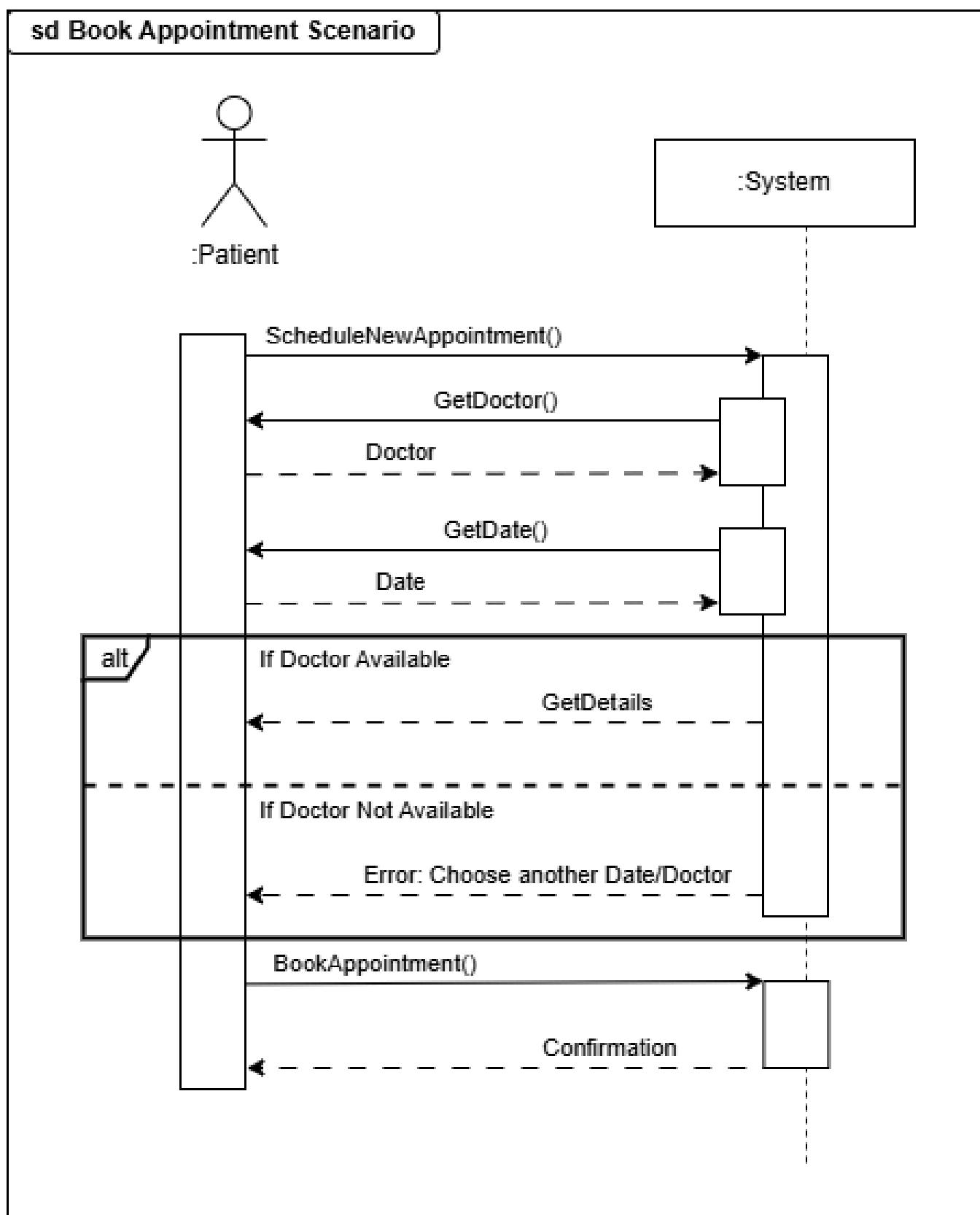
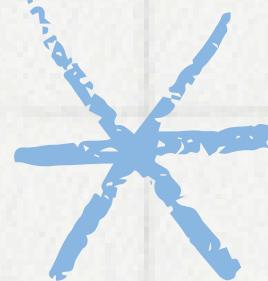
The patient can overview the details. Once they are satisfied, they can schedule the appointment by pressing the Book Button.

04

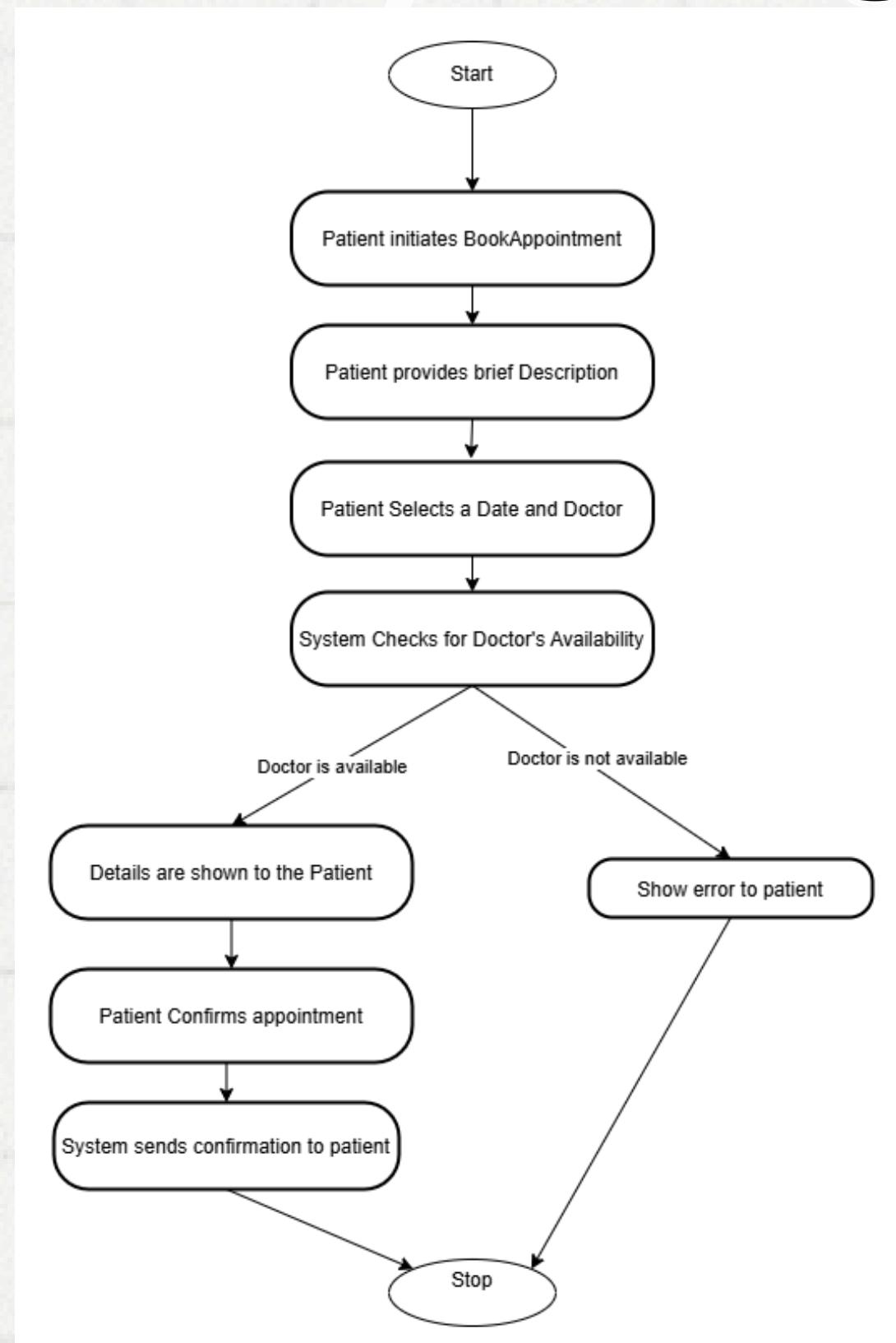
The appointment is successfully scheduled, and logged into the database.

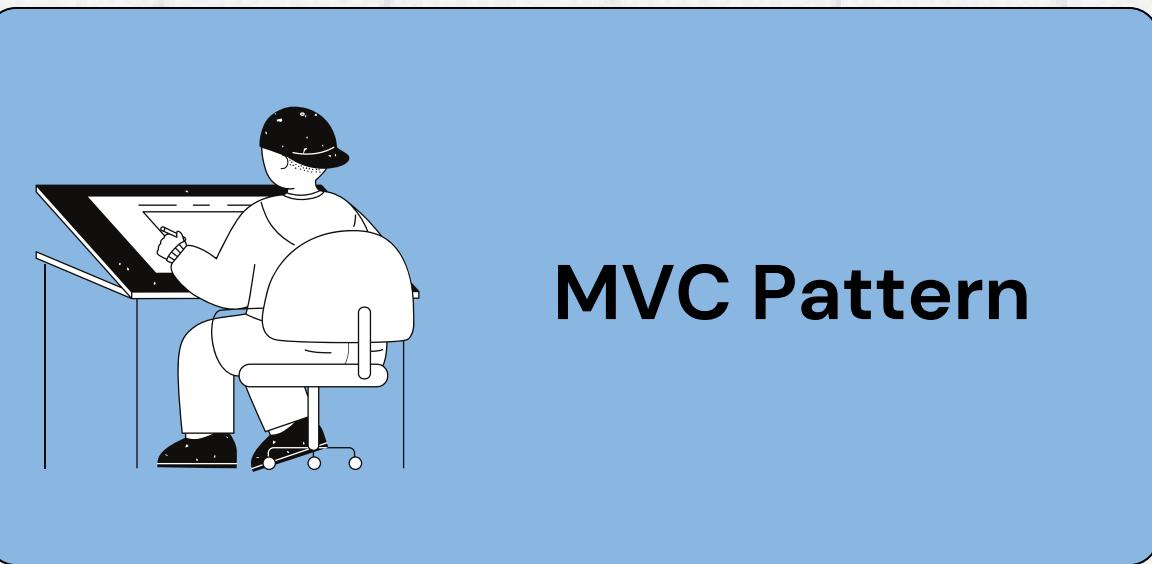
Alternative for 2: If the doctor's schedule is already full, it informs the patient to select another doctor.

System Sequence

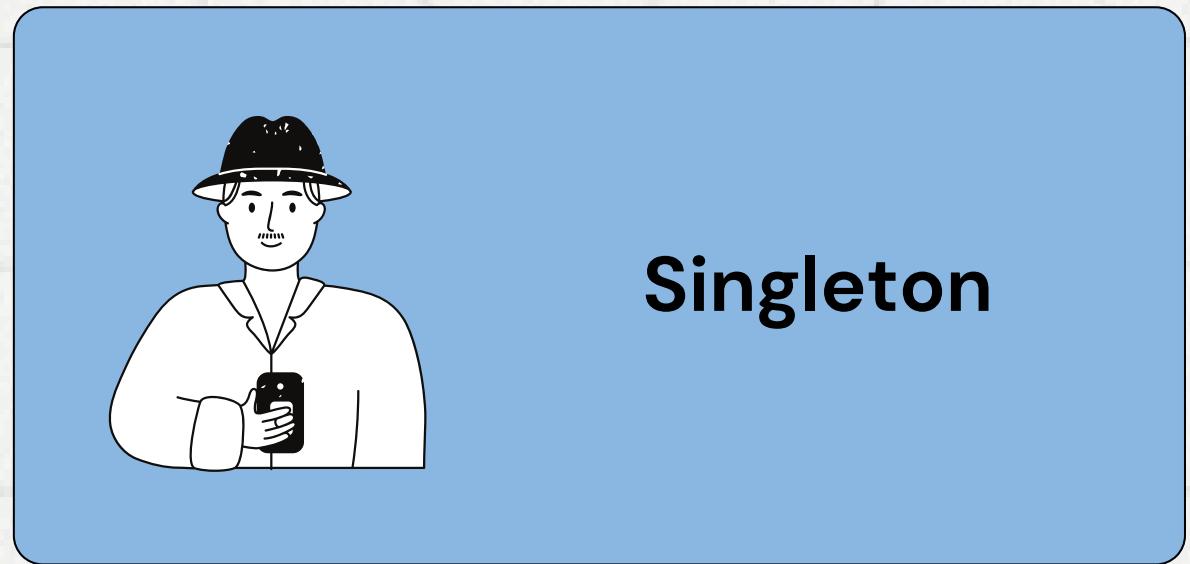


Activity Diagram





MVC Pattern

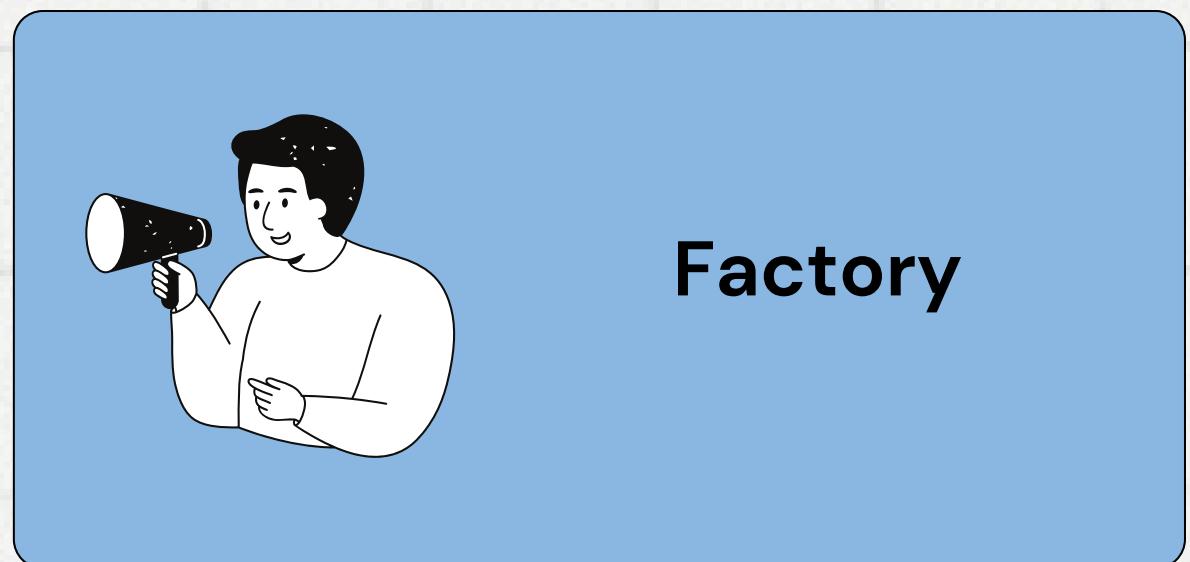


Singleton

Design Patterns

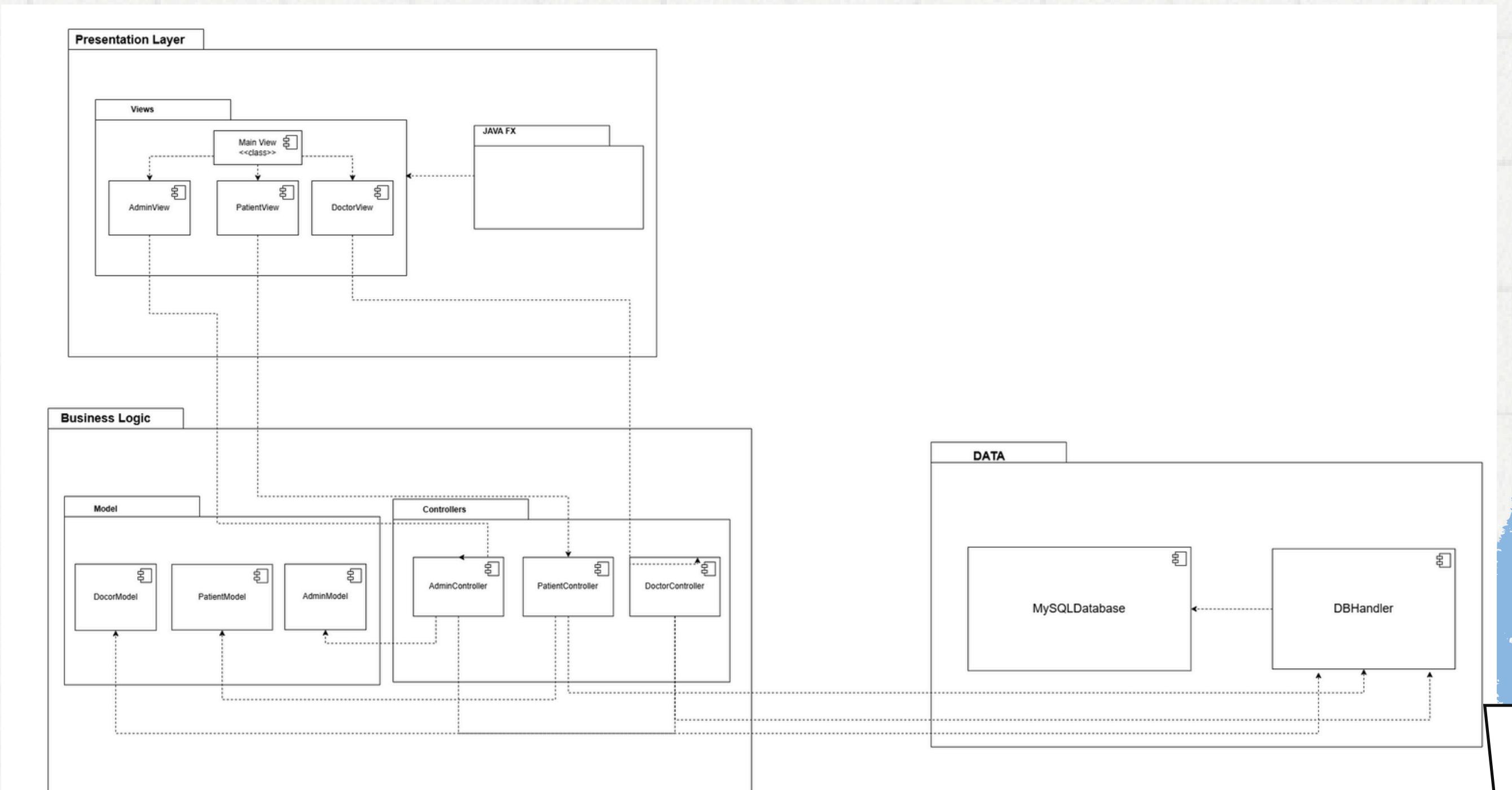


Persistence
Handler

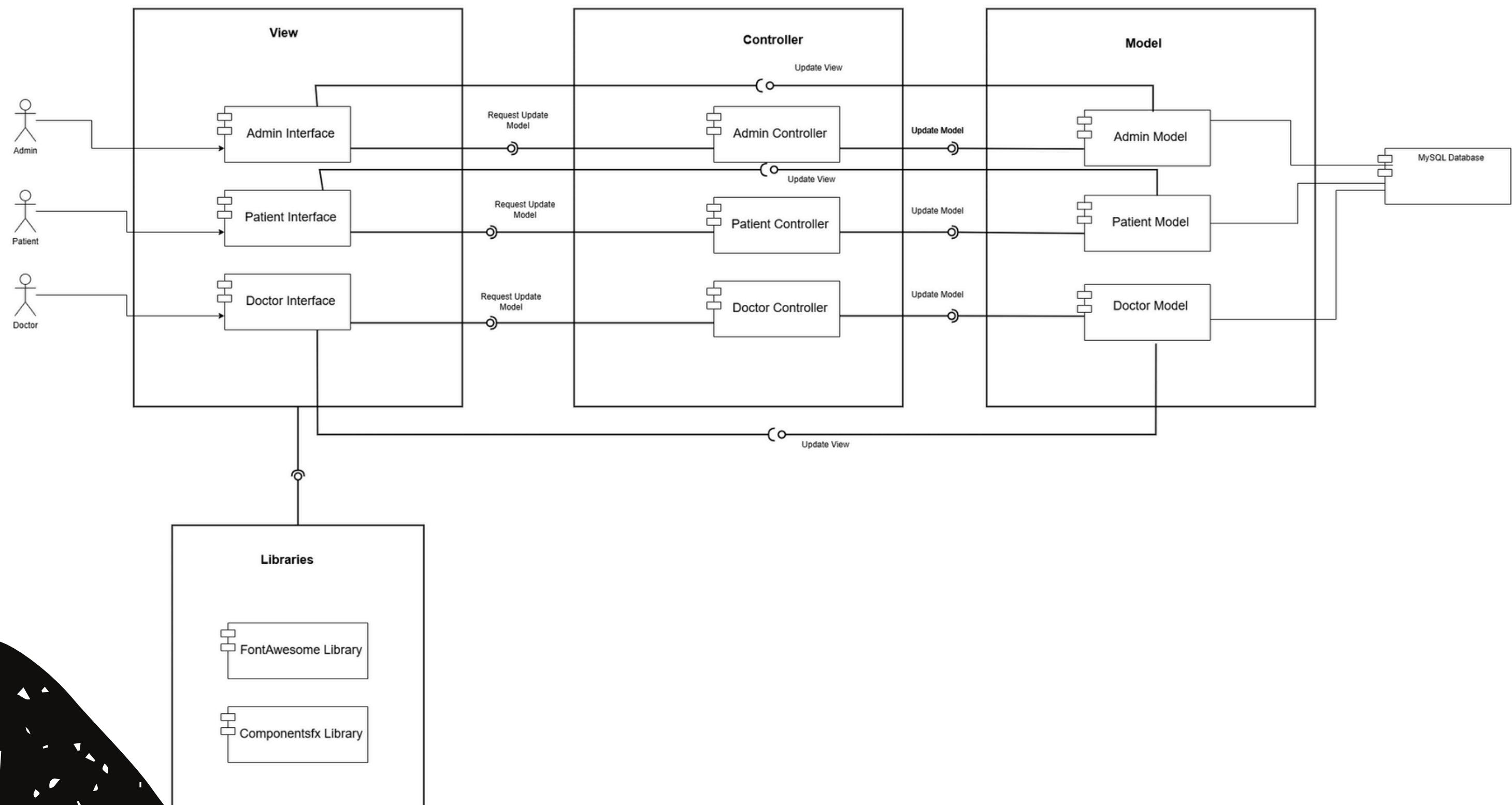
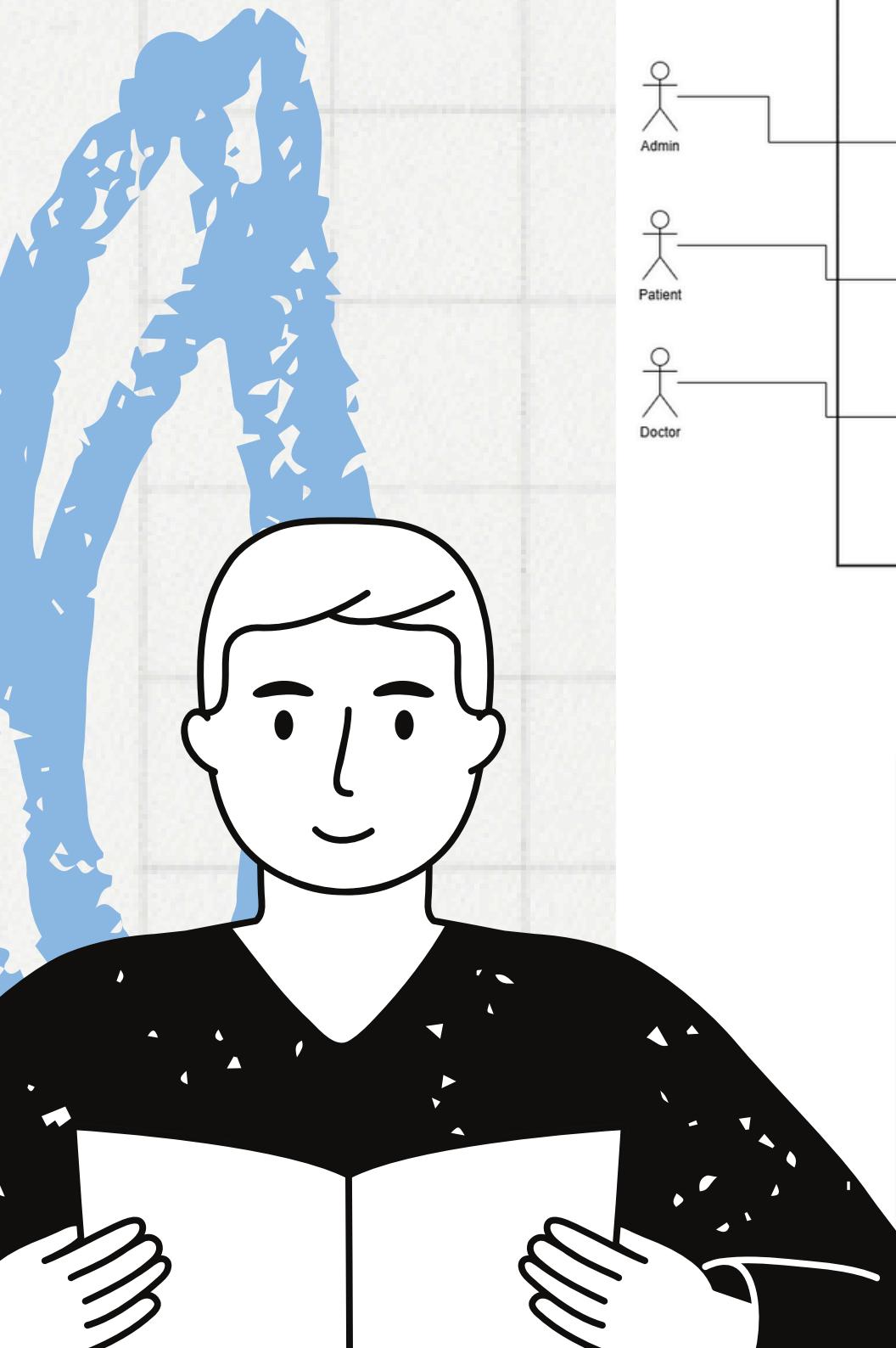


Factory

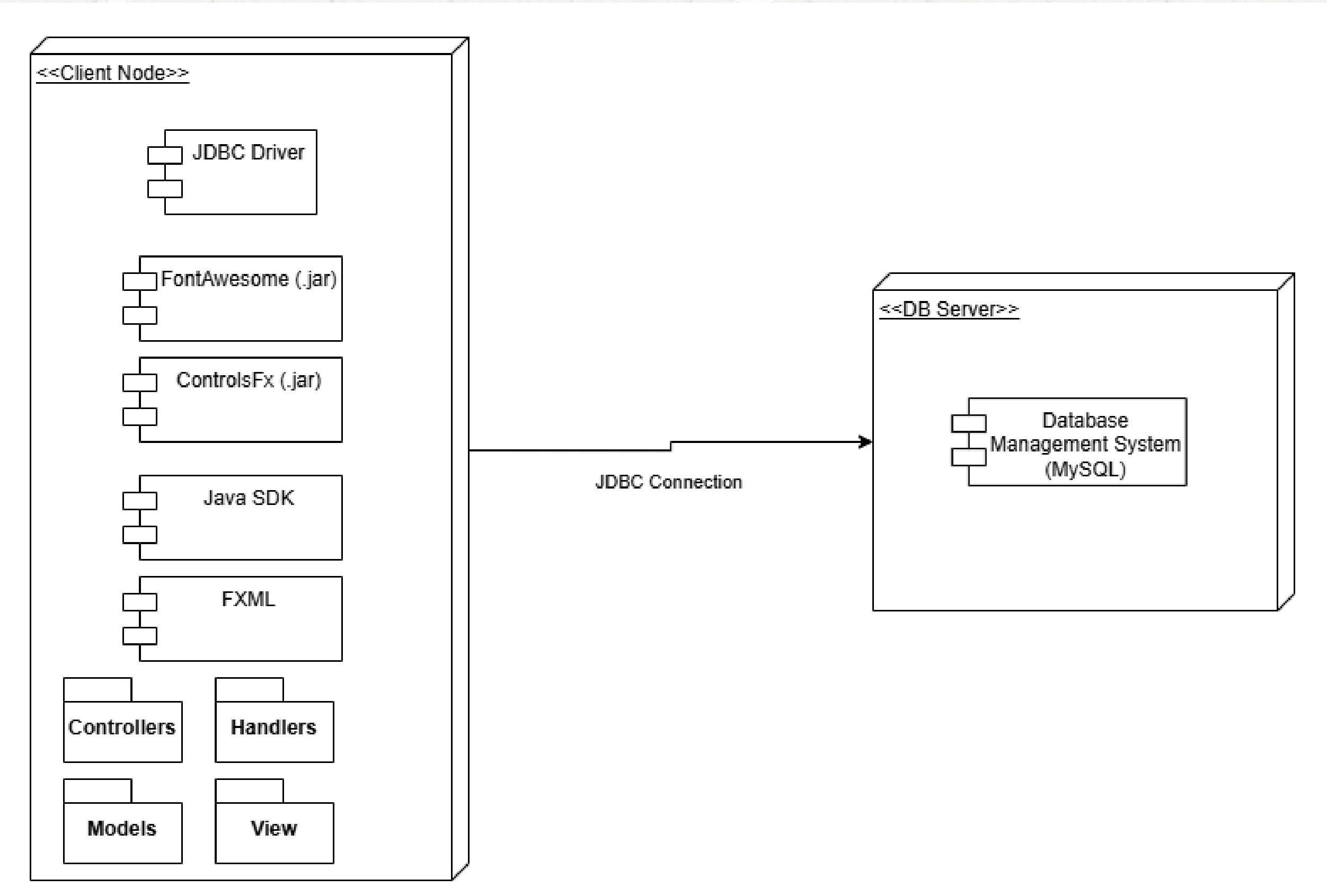
Package Diagram



Component Diagram



Deployment Diagram



**Thank you
very much!**