

# **Systems Design Report**

The background of the page features a series of parallel diagonal stripes. From top-left to bottom-right, the stripes are blue, red, and light gray. The stripes are of varying widths and create a dynamic, modern aesthetic.

## 1 INTRODUCTION

QuickCare UK, the application our team has provided design documentation for, is intended to provide users with information regarding the wait times for health centres in their area, such as GPs and hospitals. They can view historical wait times to be better able to predict busy and quiet times for different hospitals and report the wait times they're experiencing while visiting. In addition, users can request live chats with health practitioners to get diagnoses or recommendations for conditions ahead of their visit, and notify hospitals in case they may need specialist treatment.

All of this is intended to cut down on the amount of time spent in hospital waiting rooms, and potentially increase the overall efficiency of the regional or national healthcare system by better distributing workloads. Individuals may choose to travel the extra 20 minutes to the next hospital with fewer patients to be seen quicker, for example.

### Member

**Name** – Hina Malik **Role** – Junior Systems Designer **Bio** – A dedicated student with a background in Computer science (associate's degree) **Skills** – Basic Knowledge of SQL and Database Design, Ability to create Wireframe's for mobile applications.

## Hina Malik:

### REQUIREMENTS

**R26** - As a user, I should receive notifications about overcrowded hospitals.

MoSCoW Priority : Should Have

**R27** – As a user, I should be able to log in using Face ID or Fingerprint Authentication.

MoSCoW Priority : Should Have

**R28** – As a user, I should be logged out automatically after 30 minutes of inactivity.

MoSCoW Priority : Should Have

**R29** – As an administrator, the app should provide Step-by-Step tutorials for the first time users.


MoSCoW Priority : Should Have

**R30** – As a user, I should be able to request an ambulance.

MoSCoW Priority : Should Have

### USER STORY

**AYESHA KHAN**



As a junior doctor in General Practice, I want seamless access to my patients' complete medical records, so that I can make accurate, timely diagnoses and provide better patient care.

**NAME**

Dr Ayesha Khan

**AGE**

28

**LOCATION**

London

**OCCUPATION**

Aspiring Doctor

**MARITAL STATUS**

Un-Married

**KIDS**

No

**INTERESTS**

Passionate about providing accurate and personalized patient care through informed decision-making.

**CHALLENGES**

**Struggles with inaccurate** and generalized diagnoses due to incomplete patient history.  
**Difficulty in accessing** comprehensive medical records from different healthcare providers.  
Time constraints when gathering patient data during consultations.  
**Frustration with outdated** or fragmented medical record systems.

**STEPS TO FIX THAT**

A seamless and **integrated system** that provides quick access to patient history. **Centralized medical** records accessible across different healthcare providers. **A user-friendly digital solution** that enhances efficiency in diagnosis and treatment.

**GOALS**

Improve diagnostic accuracy and patient outcomes. Reduce consultation time spent on retrieving patient history. Enhance efficiency and patient trust through better-informed decisions

**FRUSTRATION**

Feeling restricted by outdated or disconnected systems. Worry that misdiagnoses could occur due to missing information. The pressure of making critical decisions with incomplete data.

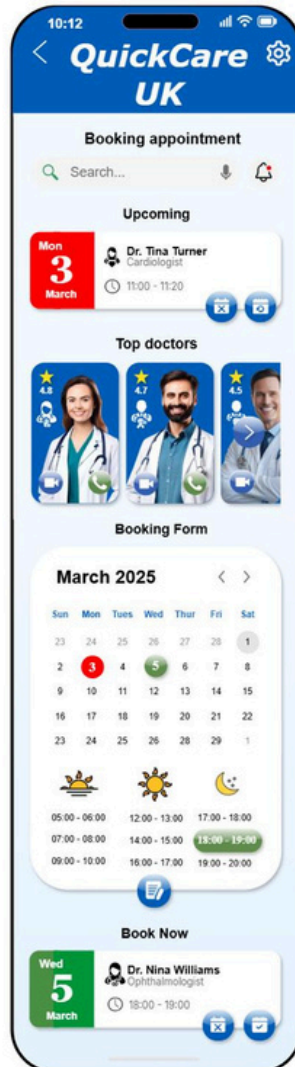
**MOTIVATION**

A strong commitment to ethical medical practice. The desire to provide the best possible care for every patient.

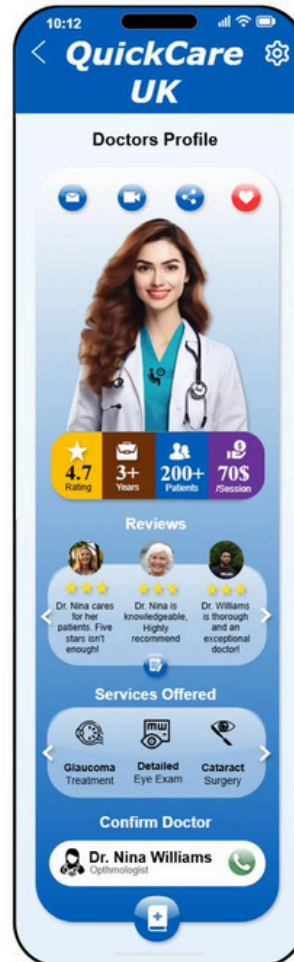
**ADDITIONAL**

Hardworking & Determined, Seeking an Opportunity to Grow

Booking appointment page



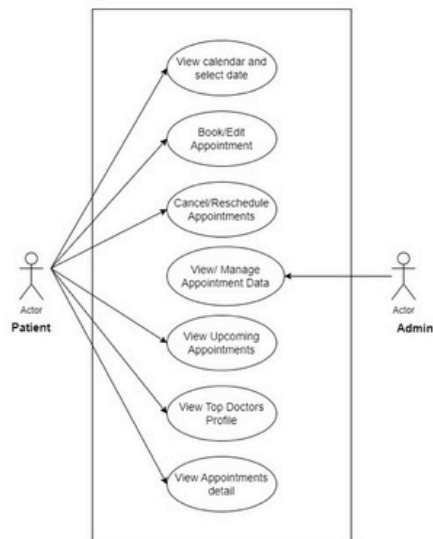
Doctors Profile page



## Use Case Diagram

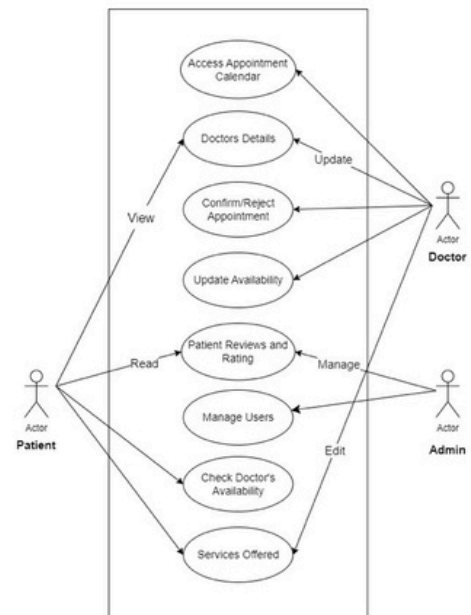
### 1 Booking Appointment Page

Use Case Diagram



### 2 Doctors Profile Page

Use Case Diagram

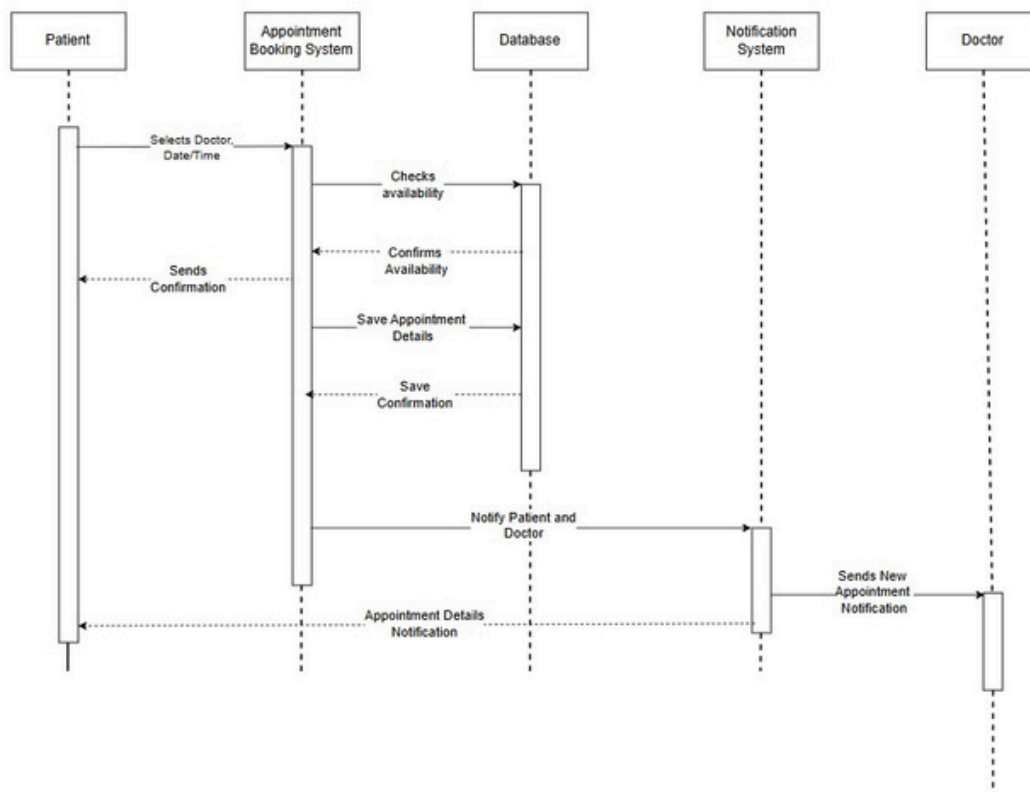


## Sequence Diagram

### 1 Appointment Booking Page

Use Case;

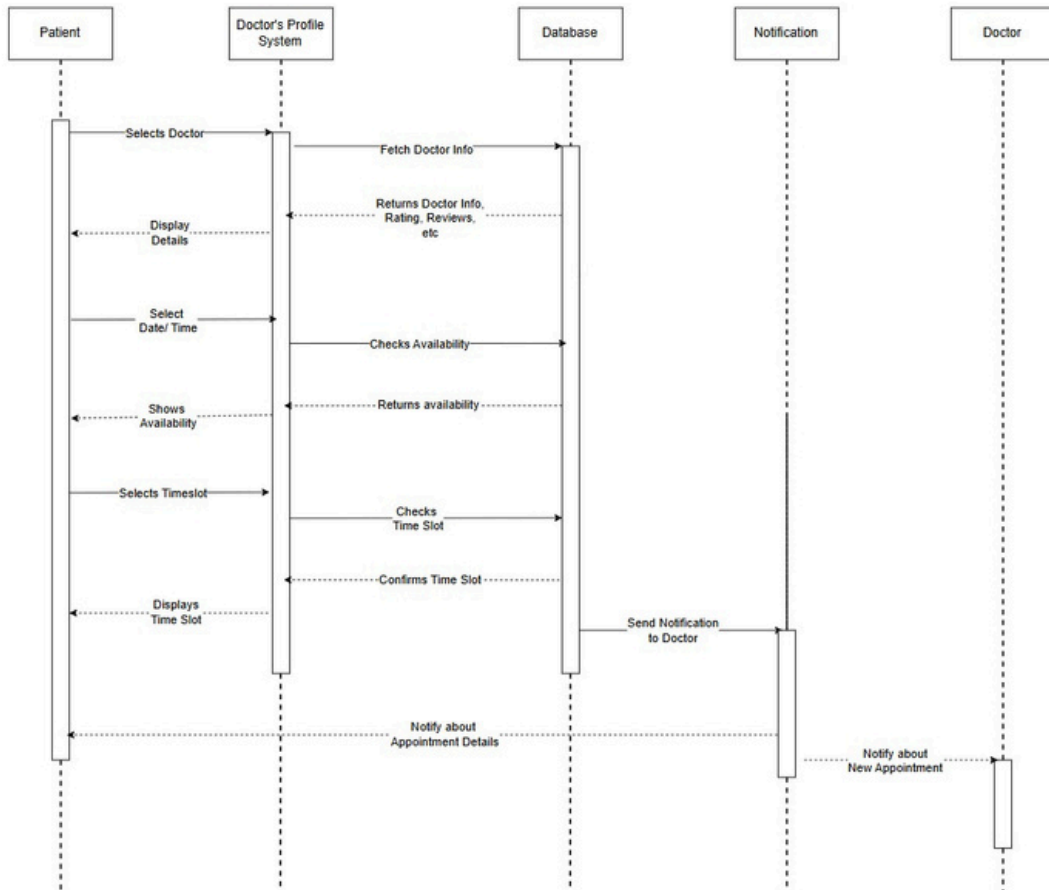
Booking and Confirming an appointment



## 2 Doctor's Profile Page;

Use Case;

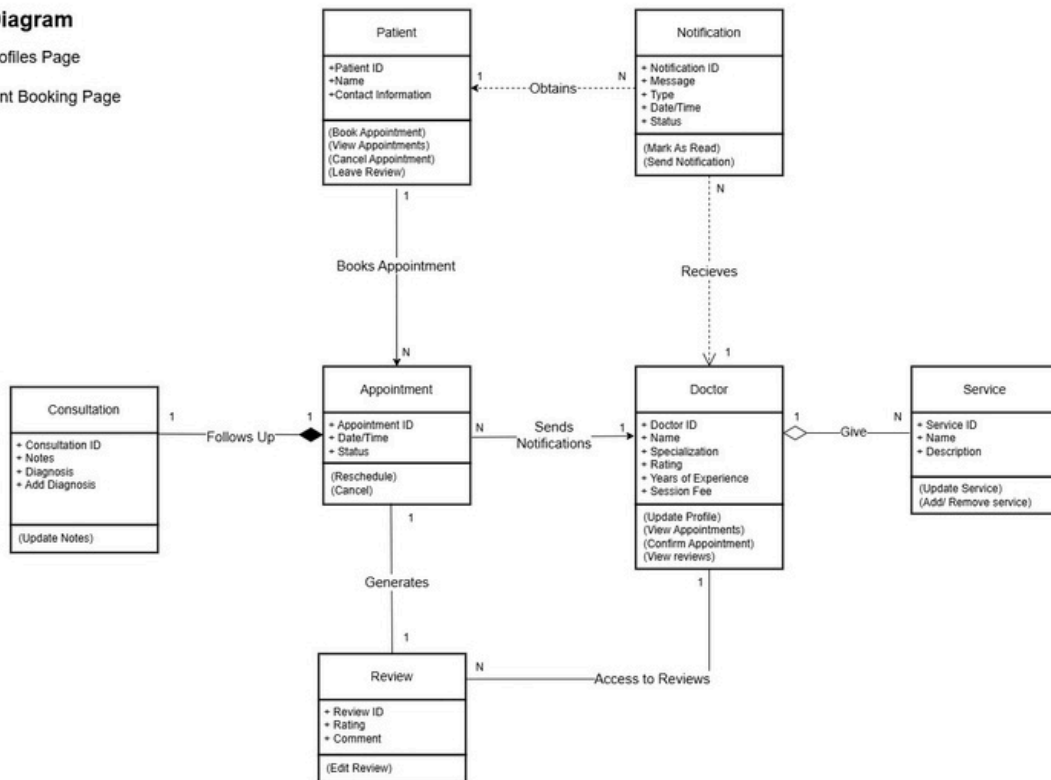
Viewing Doctor's Details



## Class Diagram

### Class Diagram

Doctors Profiles Page  
and  
Appointment Booking Page



## Entity Relationship Diagram

### Entity relationship Diagram

Doctors Profiles Page  
and  
Appointment Booking Page

