

@Database Project- Doctor's Appointment Booking System

# **SOFTWARE REQUIREMENT SPECIFICATION**

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# I N T R O D U C T I O N

## **PROBLEM :**

Booking a doctor's appointment in Germany is an open mess. First off, the waiting times are lengthy sometimes stretching months from the time of illness. Then, if there is a free slot prior to your appointment (maybe due to cancellation of pre-booked appointment), there exists no mechanism to get you informed about it or to expedite(prepone) your appointment. Everything happens via a phone call and there is no online system that handles appointments on the clinic's end.

## **PROJECT :**

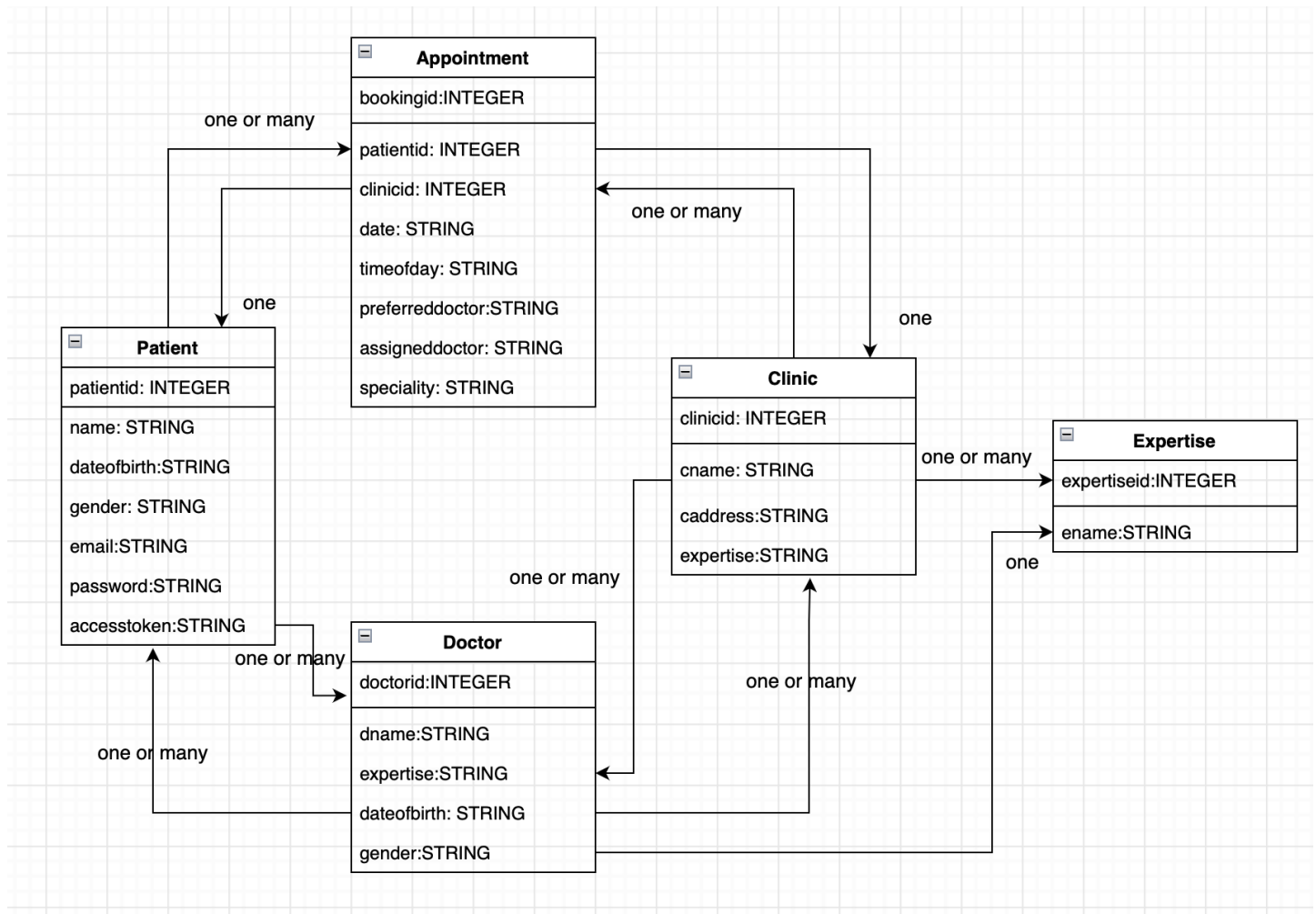
We will be developing an appointment system for hospitals and clinics which will help ease the entire process of booking an appointment easier and faster on both the patient's and the clinic's end.

Clinics will be able to manage their appointments through a web dashboard whereby they can view all the appointments for a particular day/ week/ month from a calendar view. The end user or patients within our system will be able to search for available appointments based on the nearest clinics and the type of doctor they're looking for.

Patients can cancel their appointment a certain time prior and can reschedule based on new available appointment dates. Clinics also possess the power to reschedule a patient's appointment through the dashboard.

Location permission of the patient will additionally be requested.

## Entity Relationship Diagram



### MVP - DESCRIPTION

#### KEY FEATURES:

- Basic Appointment
- Book a CT scan/ MRI
- Categorize your health problem and find the nearest doctor
- Sort by location and appointment availability
- Login Authentication page for a clinic/ hospital and patient
- Two interfaces: One for clinic, one for the patient.

#### ON THE CLINIC'S END:

- A calendar view that lists all the available and booked appointments,

- List info of the patient, their type of illness, health insurance status, when they made an appointment, time of the day, day | Preferred doctor & Assigned doctor
- Manage list of doctor: available in a particular day
- Key actions: Administrators of the hospitals: can assign doctors to patient based on availability, can reschedule an appointment if necessary, are responsible for adding the dates for the doctor's availability.

#### **ON THE PATIENT'S END:**

- Begin with a user authentication page that has the user's info received and saved for every time the user makes an appointment
- Search bar with filters according to doctor classification( gynecology, dermatology, orthopedics, internal medicine, cardiology, oncology)
- Search filter for available appointment slots according to availability and location (radius) of the patient.
- Calendar view which shows the availability of free slots for a particular health checkup

#### **ABOUT THIS DOCUMENT:**

The purpose of this document is to provide an overview of software requirements for the development of the Database and Web Services project for Group 17. We will be developing a web application that eases the process of booking doctor's appointments and health checkups.