# Clinic appointment system

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Purpose, allow patients to take appointment throught this application.

Allow doctors to visulize the appointments taken and manage their availability.

Program will have three different login roles. Each login will be organized in one project executalbe(assembly).

Admin login, doctor login, patient login

Process:

Each Doctore will enter his daily availability for the next 2-4 weeks. This is done periodically.

Doctor will choose the date, then enter the available from - available to hours. They can enter the hours skipping the break hours. Admin can do it for doctor if wished.

When doctor enters the availability, database trigger will automatically create default time slots for that date with that doctor Id.

time slots will have a status taken or available(in dabase it is bit (value 0 for taken, value 1 for available, default is available. Existing time slots, can be modified by admin (some condition?)

When patient choose a doctor to book appointment, he will see only the available time slots.

Patient can also cancel an appointment if 24 hours before the appointment.

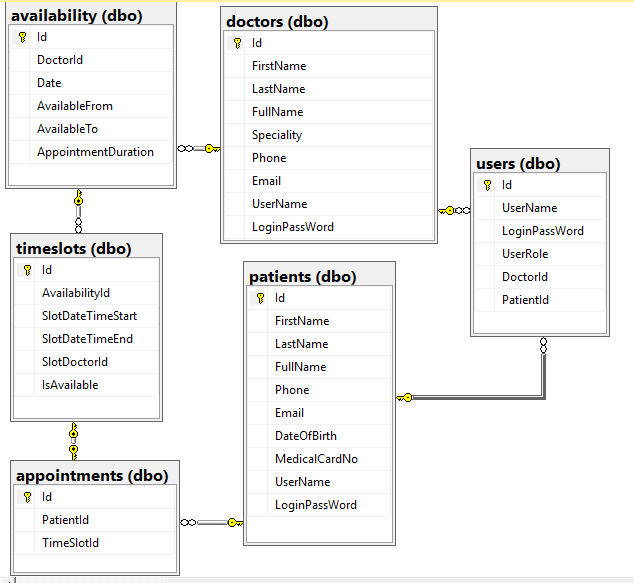
Admin can have full access to all the functionality: add doctore, register a patient, take an appointment, modify the schedule, add/ modify time slots etc.

Tools:

Visual studio,wpf, C#, sql server azure, entity framework(will try)

Schedulor control (devexpress)

Database diagram



Implemented trigger to enter the timeslots automatically according to availability.

Doctor with id 3 entered an availability as below:

Id DoctorId Date AvailableFrom AvailableTo AppointmentDuration

4 3 2018-04-03 2018-04-03 08:00:00.000 2018-04-03 12:00:00.000 60

Then these below records are inserted into timeslots by trigger

Id AvailabilityId SlotStart SlotEnd SlotDoctorId IsAvailable

1 4 2018-04-03 08:00:00.000 2018-04-03 09:00:00.000 3 1

2 4 2018-04-03 09:00:00.000 2018-04-03 10:00:00.000 3 1

3 4 2018-04-03 10:00:00.000 2018-04-03 11:00:00.000 3 1

4 4 2018-04-03 11:00:00.000 2018-04-03 12:00:00.000 3 1

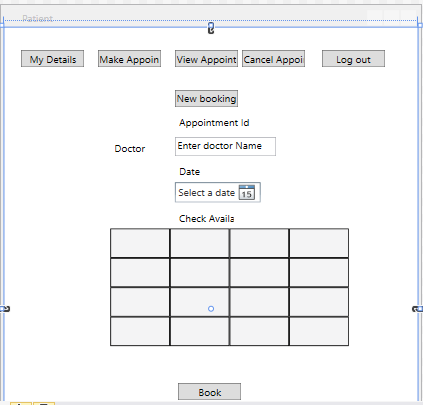
Implemented trigger to enter the user table automatically according when a doctor or patient is added.

Still thinking: On the same date, doctor can enter several interval availableFrom availableTo to allow flexibility.

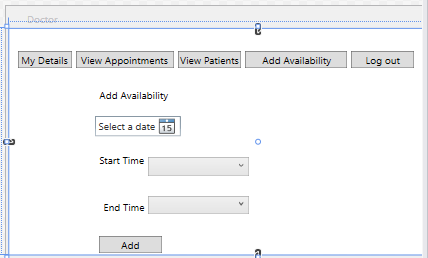
There should be a condition to check the when same doctor same date, the next availableFrom is later than the last AvailableTo

UI interface can change, this is draft.

Patient



Doctor



Admin

