Hospital Web App-admin version

This is web application for admin user. This application allows to change everything in project, all database.

Application has CRUD methods using REST API for patients, doctors and visits.

Database

I created database in mySQL. Name of the db is `web_hospital_tracker`. My database contains 3 tables.

Table doctor

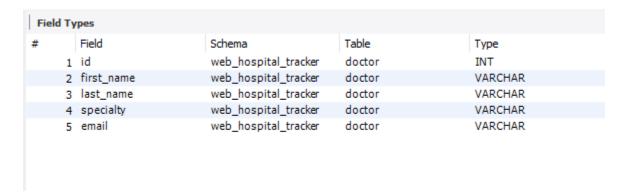


Table doctor contains some basic information about doctor. Each doctor has own id number which identifies doctor. Doctor also has first name, last name, specialty and email.

Below there is some example data of table doctor.



Id numbers are not in order because i was deleting doctors and adding them multiple times and in this case e.g if you want to add a new doctor then doctor id will be 14. So that is why after doctor with id 1 there is doctor with id 6, i simply deleted all doctors beetween.

Table Patient

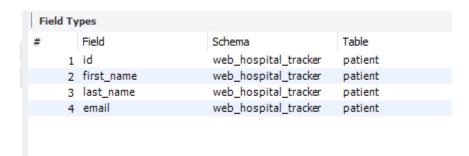


Table patient contains some basic information about patient. Each patient has own id number which identifies patient. Patient has also first name, last name and email.

Below there is some example data of table patient.

	id	first_name	last_name	email
•	9	Zuzia	Olszewska	zuzia@gmail.com
	10	Lil	Kaczmarek	lil@gmail.com
	17	Weronika	Mazurek	weronika@gmail.com
	22	Bartek	Strugarek	bartek@gmail.com
	23	Artur	Kowalski	artur@gmail.com
	25	Jakub	Kaczmarek	losek@gmail.com
	27	Beata	Rozanek	beata@gmail.com
	28	Iza	Piechowiak	iza@gmail.com
	NULL	NULL	NULL	NULL

Id numbers are not in order because i was deleting patients and adding them multiple times and in this case e.g if you want to add a new patient then doctor id will be 29. So that is why after doctor with id 10 there is doctor with id 17, i simply deleted all doctors beetween.

Table visit

I created many-to-many mapping beetwen tables doctor and patient.

Table visit contains id number from table doctor and id number from table patient.

On diagram below you can see that dependency.

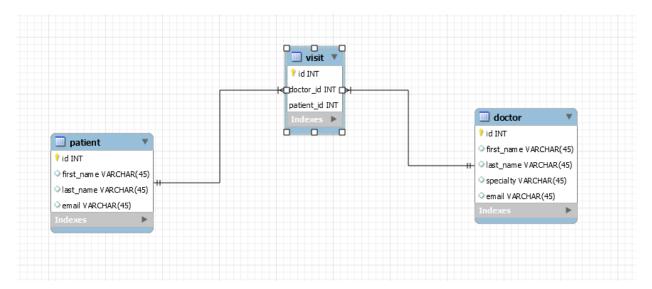
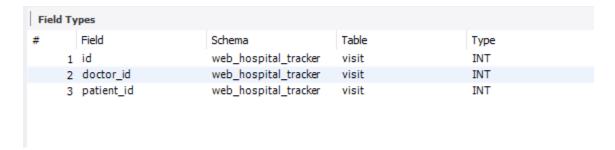
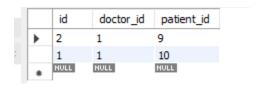


Table visit conatins own id number and id of doctor and patient.



Some example data of table visit.



Maven Project

I created maven project to modify database data.

In package com.hospital.springdemo.entity there are connected classes with db tables.

So class Doctor is connected to table doctor.

```
@Entity
@Table(name="doctor")
public class Doctor {

@Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    @Column(name="id")
    private int id;

@Column(name="first_name")
    private String firstName;

@Column(name="last_name")
    private String lastName;

@Column(name="specialty")
    private String specialty;

@Column(name="email")
    private String email;
```

All fields are conntected together.

Table doctor has also many-to many mapping.

Each doctor has list of patients that he cures.

Class Patient

Class Patient is connected to table patient.

```
@Entity
@Table(name="patient")
public class Patient {

    @Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    @Column(name="id")
    private int id;

    @Column(name="first_name")
    private String firstName;

    @Column(name="last_name")
    private String lastName;

    @Column(name="email")
    private String email;
```

All fields are conntected together.

Table patient has also many-to many mapping.

Each patient has list of doctors, so as in real life we can treat with many doctors.

Class Visit

```
package com.hospital.springdemo.entity;
3⊕ import javax.persistence.Column;[.]
@Entity
1 @Table(name="visit")
public class Visit {
4
5⊝
      @GeneratedValue(strategy=GenerationType.IDENTITY)
5
      @Column(name="id")
      private int id;
8
9
3
10
      @Column(name="doctor_id")
      private int docId;
1⊖
      @Column(name="patient_id")
      private int patId;
```

This class conntects doctors and patients.

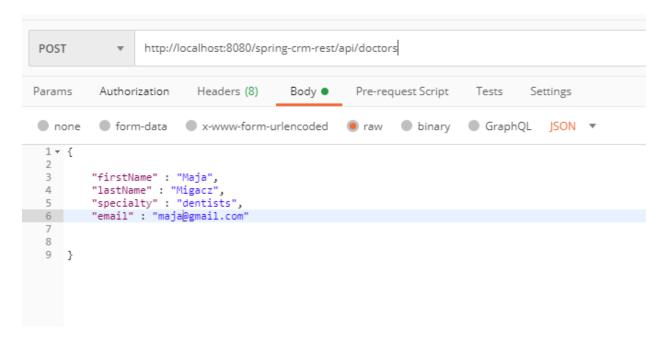
All visits are stored in database.

Each visit has own id number, id of doctor and id of patient.

Testing REST API in postman

I will test CRUD on Doctor class.

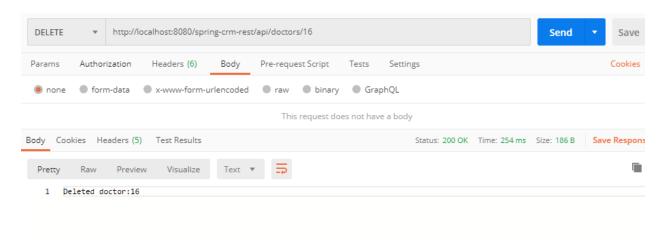
Adding doctor:



Result in database:



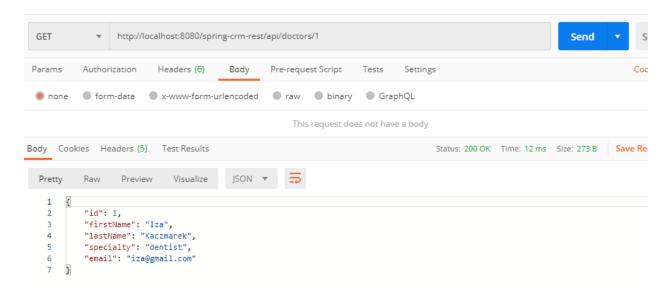
Deleting doctor:



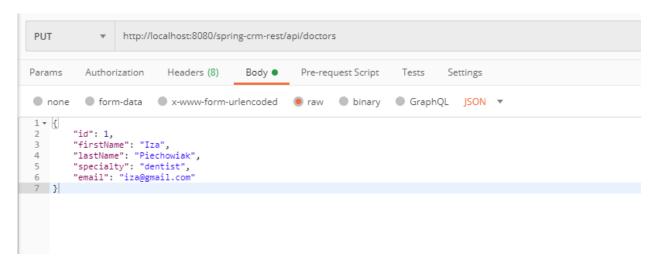
Result:



Reading doctor:

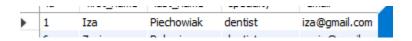


Updating doctor:



lastName was changed from value Kaczmarek to Piechowiak

Result:



So there are also same methods for Patients and Visits

Methods to update patients are in package:

Com.hospital.springdemo.rest

In file PatientRestController

Methods to update visits are in package:

Com.hospital.springdemo.rest

In file VisitRestController