

Assignment 2(Heal At Home)

Team Members: (EAD128)

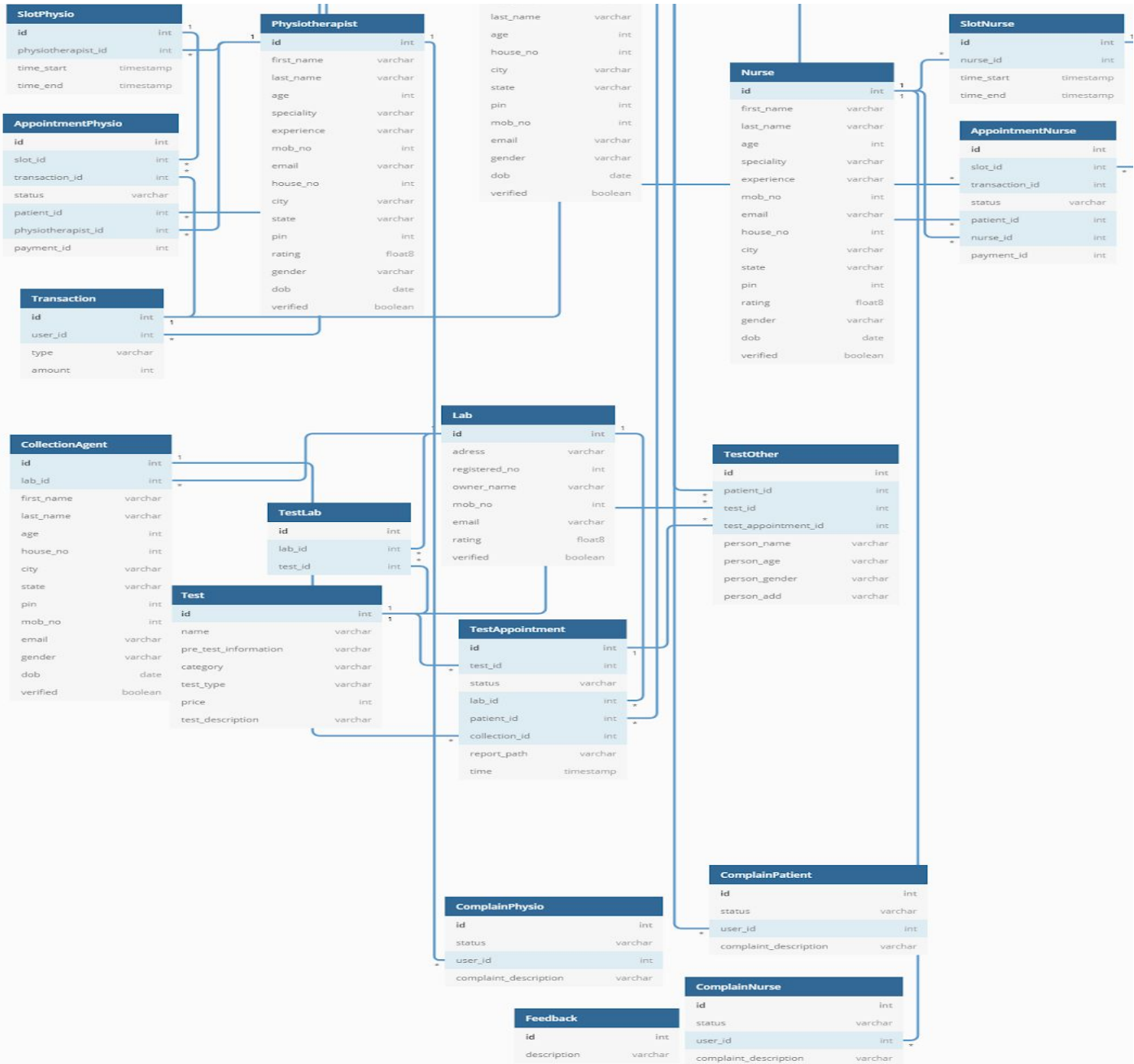
Aman Kumar (S20170010010)

Shivam Gupta (S20170010149)

Kalpajyoti Handique (S20170010061)

Siddhartha Goswami (S20170010152)

Database Schema



Reason behind using the database

- Data used in our project is mostly relational therefore we have used RDBMS
- It can handle a lot more data, its highly scalable
- PostgreSQL is fully ACID Compliant
- It has multi-version concurrency control (MVCC) features

DBMS Scalability and usability analysis

PostgreSQL can handle a lot of data. The current posted size limits are listed below:

Limit	Value
Maximum Database Size	Unlimited
Maximum Table Size	32 TB
Maximum Row Size	1.6 TB
Maximum Field Size	1 GB
Maximum Rows per Table	Unlimited
Maximum Columns per Table	250 - 1600 depending on column types
Maximum Indexes per Table	Unlimited


Module implementation with test cases

The module implemented for this section is the physiotherapist portal. This module mainly includes:

- Profile management for physiotherapist
- Accepting booking requests
- Making slots available for the patient
- Managing appointments

In the implementation of the module, we can see the profile of the physiotherapist. This is the homepage of physiotherapist

HEAL AT HOME



Dr. Aman Kumar

PHYSIOTHERAPIST

Profile

Make Slots

View Slots

View Appointments

PHYSIOTHERAPIST BASIC INFORMATION

Date of Birth	Aug. 30, 1998
Gender	M
Experience	5
Speciality	Accupuncture

CONTACT INFORMATION

Then give the ability to modify the profile of the physiotherapist himself.
(updating his experience to 15 years)

HEAL AT HOME



First name:

Last name:

Age:

Speciality:

Experience:

Profile pic: No file chosen

House no:

City:


State:

Pin:

Dob:

Mob no:

Changes are made to his actual profile being shown at his home page



Dr. Aman Kumar

PHYSIOTHERAPIST

Profile

Make Slots

View Slots

View Appointments

PHYSIOTHERAPIST BASIC INFORMATION

Date of Birth

Aug. 30, 1998

Gender

M

Experience

15

Speciality

Accupuncture

CONTACT INFORMATION

Phone


+91 9398096252

Locality

DK12, Samastipur, Bihar

Then the physiotherapist slot creation is enabled, so he can himself decide when to attend the patients

HEAL AT HOME



Make Slot

Date: 2020-04-09

Start Time:

9 am10 am11 am12 am1 pm2 pm3 pm4 pm5 pm6 pm

Close

Save changes

Profile

Make Slots

View Slots

View Appointments

PHYSIOTHERAPIST BASIC INFORMATION

Date of Birth

Aug. 30, 1998

Gender

M

Experience

5

Speciality

Accupuncture

CONTACT INFORMATION

After that the physiotherapist can see the list of his slots.

HEAL AT HOME		
Hello Dr. Aman Kumar		
Date	Time	Slot Status
April 11, 2020	09:00:00	Not Booked
April 10, 2020	18:00:00	Not Booked
April 10, 2020	16:00:00	Booked
April 10, 2020	13:00:00	Not Booked
April 9, 2020	15:00:00	Not Booked
April 9, 2020	17:00:00	Booked
April 9, 2020	16:00:00	Not Booked
April 9, 2020	13:00:00	Not Booked
April 9, 2020	12:00:00	Booked

After the slots are made and the physiotherapist can view his bookings, and accordingly, he can see the list of bookings

HEAL AT HOME

Dr. Aman Kumar

Patient Name	Patient Address	Date	Time	Attended
Kalpo	Dibrugarh, Assam	April 10, 2020	16:00:00	Upcoming
Sanjay	Deoria, Uttar Pradesh	April 10, 2020	18:00:00	Upcoming
Sanjay	Deoria, Uttar Pradesh	April 11, 2020	09:00:00	Upcoming
Shivam	Haridwar, Uttarakhand	April 9, 2020	13:00:00	Completed