

CITY HEALTHCARE PROVIDER

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USERS COLLECTION

The patient collection will store patient's information.

```
[
{
  "_id": "57d486a14d435013964f8a5a6206b13b",
  "first_name": "Christina",
  "last_name": "Clark",
  "email": "christina@gmail.com",
  "phone_number": "2014664360",
  "user_type": "patient",
  "hashed_password": "0b7afda982f3c14e4f74c5d01c662da7",
  "dob": "02-11-1990",
  "blood_group": "AB +ve",
  "gender": "female",
  "address": "132 South Street, Jersey city, NJ-07307, USA",
  "insurance_details": {
    "policy_name": "University Health plans",
    "policy_id": 19780679,
    "policy_number": "2017 FDSSA",
    "effective_date": "9/19/2019"
  }
}
]
```

Name	Type	Description
_id	string	A globally unique identifier to represent patients.
hashed_password	string	AES encrypted user password.
user_type	string	User type can be patient and admin to segregate the login and provide different access controls.

insurance_details	object	Insurance details are empty when the patient is not insured.
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DOCTORS COLLECTION

Doctors collection stores information about the doctors and the hospitals they work for in an available time slot.

```
[
  {
    "_id": "57d486a14d435013964f8a5a6206b13b",
    "name": "Dr. Shalini",
    "specialization": "gynecologist",
    "education": "MBBS, MD",
    "medical_registration_verified": true,
    "experience": "12 years",
    "description": "Dr. Shalini is a gynecologist, in Washington street, New Jersey and has an experience of 12 years in these fields.",
    "hospitals": [
      {
        "_id": "81dc9bdb52d04dc20036dbd8313ed055",
        "available_slots": [
          "10:00 am", "11:00 am",
          "2:00 pm", "3:00 pm", "4:00 pm", "7:00 pm", "8:00 pm"],
        "fee": 100
      },
      {
        "_id": "ea3502c3594588f0e9d5142f99c66627",
        "available_slots": [
          "10:00 am", "11:00 am",
          "2:00 pm", "3:00 pm", "4:00 pm", "7:00 pm", "8:00 pm"],
        "fee": 150
      }
    ]
  }
]
```

Name	Type	Description
_id	string	A globally unique identifier to represent doctors.
specialization	string	Indicates doctor's specialization. Can be specialized in various fields(comma separated values)
education	string	Indicates doctor's education. Can have multiple education(comma separated values)
medical_registration_verified	boolean	Indicates whether it's a verified & registered medical practitioner.
experience	string	Indicates doctor's experience.
description	string	Doctor's summary.
hospitals	Sub-document	Doctor's can work in multiple hospitals and contain doctor's hospital details.

HOSPITALS(SUB-DOCUMENT)

Hospitals is a sub-document of doctor's collection.

```
"hospitals":[
  {
    "_id":"81dc9bdb52d04dc20036dbd8313ed055",
    "available_slots":[
      "10:00 am", "11:00 am",
      "2:00 pm", "3:00 pm", "4:00 pm", "7:00 pm", "8:00 pm"],
    "fee": 100
  }
]
```

Name	Type	Description
_id	string	A globally unique identifier to represent hospital.
available_slots	array	Indicates doctor's available slots. Availability updated based on patient's appointment.
fee	number	Indicates doctor's fee.

HOSPITALS

Hospitals collection stores hospital information and number of doctors working for a specific hospital.

```
[
  {
    "_id": "81dc9bdb52d04dc20036dbd8313ed055",
    "name": "Riverside hospital",
    "address": "1485 Bloomfield St, Hoboken, NJ ",
    "holidays": ["Sunday"],
    "doctors": [
      "57d486a14d435013964f8a5a6206b13b", "c34a7191f6e9948068b83e7179ea3da8"
    ]
  },
  {
    "_id": "4b7f871c66be5ac7630c27bb5e21fe7f",
    "name": "Jersey City Medical Center at Greenville",
    "address": "1825 John F Kennedy Blvd, Jersey City, NJ 07305",
    "holidays": ["Saturday", "Sunday"],
    "doctors": [
      "57d486a14d435013964f8a5a6206b13b", "c34a7191f6e9948068b83e7179ea3da8"
    ]
  }
]
```

Name	Type	Description
_id	string	A globally unique identifier to represent hospital.
name	string	Indicates hospital's name.
address	string	Indicates hospital's address.
holidays	array	Indicates hospital working hours.
doctors	array	Stores doctor's ids referring to doctors collection.

APPOINTMENTS

Appointment collection that stores the appointments booked by a patient. It contains appointment details about the time booked and which doctor and hospital he/she is consulting. Also stores notes that patient makes to ask the doctor prior to appointment.

```
[
{
  "_id": "d10906c3dac1172d4f60bd41f224ae75",
  "hospital_id": "81dc9bdb52d04dc20036dbd8313ed055",
  "time": "03-10-2020 15:00:67",
  "doctor_id": "57d486a14d435013964f8a5a6206b13b",
  "patient_id": "57d486a14d435013964f8a5a6206b13b",
  "notes": "Ask doctor about the coronavirus precautions"
}
]
```

Name	Type	Description
_id	string	Appointment ID.
hospital_id	string	Hospital ID that refers to the hospital collection to get details of the hospital booked.
time	string	Time booked in MM-DD-YYYY hh:mm:ss format.
doctor_id	string	Doctor's ID that refers to the Doctors collection to get details of the doctor booked and to update the doctor's available slots.
notes	string	Stores notes made by the patient.