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Backend Project: Doctor Finder

1. Database Schema

The screenshot displays a database management interface with a sidebar on the left showing a schema tree. The 'doctor' table is selected under the 'consultation' schema. The main area shows the table's structure and a query result grid.

Table Schema:

id	college	dob	email_id	first_name	highest_qualificati...	last_na
UUID-10	Tellus Non Magna Associates	2022-04-09	omare@MorbivohousPeleritesque.co.uk	Mia	MDS	Ewing
UUID-11	Interdum Ligula PC	2021-11-17	id.erat@iconubanostra.edu	Ocean	BDS	Garner
UUID-12	Lobortis Augue Soelerisque Foundation	2020-10-24	enim@Phasellus.edu	Uriah	MDS	Head
UUID-13	Odio Nam Incorporated	2022-01-09	augue.ac.ipsum@egestashendrerineque.edu	Georgia	BDS	Camer
UUID-14	Elementum Industries	2021-04-10	hendrent.id.ante@risusDonec.edu	Daniel	MBBS	Gilliam
UUID-15	Ac Mi Industries	2021-09-17	omare.iberis.ate@enim.com	Dakota	MDS	Elliott
UUID-16	Primis In Ltd	2020-09-19	egestas&dui@acnulla.co.uk	Imelda	MDS	Gomez
UUID-17	Proin Sed Turpis Institute	2020-12-16	tringilla@smi.com	Jessica	MDS	Molina
UUID-18	Purus Nullam Consulting	2021-06-04	dictum.augue@euultricescit.net	Neville	MBBS	Hollowe
UUID-19	Eget Corporation	2022-04-06	arou.Cursabitur@loremDonecelementum.org	Kennan	MBBS	Hess
UUID-2	Enim Consequat Purus LLC	2021-09-16	malesuada@iacusMaunsnon.com	Blossom	MDS	Valentir

Query Results:

Time	Action	Response	Duration / Fetch Time
18:14:28	SELECT * FROM consultation.doctor LIMIT 0, 1000	91 row(s) returned	0.0051 sec / 0.00003...
18:34:03	SELECT * FROM consultation.appointment LIMIT 0, 1000	11 row(s) returned	0.0023 sec / 0.00000...
20:22:28	SELECT * FROM consultation.doctor LIMIT 0, 1000	91 row(s) returned	0.046 sec / 0.00053...

2. Doctor

Post a doctor to database.

The screenshot shows a REST client interface with a POST request to `http://localhost:8080/doctors`. The request body is a JSON object representing a doctor. The response is a JSON object with an additional `id` field.

Request:

```
1 {
2   "firstName": "Hoa",
3   "lastName": "Nhi",
4   "speciality": "PULMONOLOGIST",
5   "dob": "1980-09-30",
6   "address": {
7     "addressLine1": "123 Special Street",
8     "addressLine2": "Apt 4B",
9     "city": "New York",
10    "state": "NY",
11    "postcode": "10008"},
12
13   "mobile": "1234567890",
14   "emailId": "test4@mail.com",
15   "pan": "ABCDE1234F",
16   "highestQualification": "doctor 16 years",
17   "college": "ABC Uni",
18   "totalYearsOfExp": 5,
19   "rating": 5.0
20 }
```

Response:

```
1 {
2   "id": "8bdfd5a1-8520-4f24-a14a-27a2497734e6",
3   "firstName": "Hoa",
4   "lastName": "Nhi",
5   "speciality": "PULMONOLOGIST",
6   "dob": "1980-09-30",
7   "address": {
8     "id": "8bdfd5a1-8520-4f24-a14a-27a2497734e6",
9     "addressLine1": "123 Special Street",
10    "addressLine2": "Apt 4B",
11    "city": "New York",
12    "state": "NY",
13    "postcode": "10008"},
14   "mobile": "1234567890",
15   "emailId": "test4@mail.com",
16   "pan": "ABCDE1234F",
17   "highestQualification": "doctor 16 years",
18   "college": "ABC Uni",
19   "totalYearsOfExp": 5,
20   "rating": 5.0
21 }
```

Get all doctors

GET

http://localhost:8080/doctors

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body

Cookies

Headers (12)

Test Results

Status: 200 OK

Time: 157 ms

Size: 9.32 KB

Save as Example

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2
3    "id": "8bfdf5a1-8520-4f24-a14a-27a2497734e6",
4    "firstName": "Hoa",
5    "lastName": "Nhi",
6    "speciality": "PULMONOLOGIST",
7    "dob": "1980-09-30",
8    "address": {
9      "id": "8bfdf5a1-8520-4f24-a14a-27a2497734e6",
10     "addressLine1": "123 Special Street",
11     "addressLine2": "Apt 4B",
12     "city": "New York",
13     "state": "NY",
14     "postcode": "10008"
15   },
16   "mobile": "1234567890",
17   "emailId": "test4@mail.com",
18   "pan": "ABCDE1234F",
19   "highestQualification": "doctor 16 years",
20   "college": "ABC Uni",
```

Get doctor by Id

GET http://localhost:8080/doctors/UUID-12 Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (12) Test Results Status: 200 OK Time: 59 ms Size: 1.04 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1  {
2    "id": "UUID-12",
3    "firstName": "Uriah",
4    "lastName": "Head",
5    "speciality": "CARDIOLOGIST",
6    "dob": "2020-10-24",
7    "address": {
8      "id": "UUID-12",
9      "addressLine1": "5865 Purus St.",
10     "addressLine2": "-58.41035, -68.5989",
11     "city": "Gresham",
12     "state": "Oregon",
13     "postcode": "817559"
14   },
15   "mobile": "16540220 1361",
16   "emailId": "enim@Phasellus.edu",
17   "pan": "FCG60XRE5TA",
18   "highestQualification": "MDS",
19   "college": "Lobortis Augue Scelerisque Foundation",
20   "totalYearsOfExp": 46,
```

Get the timeslot based on the doctor id

GET http://localhost:8080/doctors/UUID-90/timeSlots?date=2023-09-18 Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> date	2023-09-18			
Key	Value	Description		

Body Cookies Headers (12) Test Results Status: 200 OK Time: 15 ms Size: 688 B Save as Example

Pretty Raw Preview Visualize JSON

```
1  {
2    "doctorId": "UUID-90",
3    "availableDate": "2023-09-18",
4    "timeSlot": []
5  }
```

Get doctors by speciality

GET Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Type: Inherit aut...
The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)

This request is using No Auth from collection [consultation](#).

Body Cookies Headers (12) Test Results Status: 200 OK Time: 53 ms Size: 10.83 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": "UUID-45",
3   "firstName": "Cadman",
4   "lastName": "Garcia",
5   "speciality": "DENTIST",
6   "dob": "2021-06-02",
7   "address": {
8     "id": "UUID-45",
9     "addressLine1": "2341 Metus Rd.",
10    "addressLine2": "-21.16956, -168.01797",
11    "city": "Gullegem",
12    "state": "WV",
13    "postcode": "41303"
14  },
15  "mobile": "16790923 8268",
16  "emailId": "volutpat.ornare.facilisis@elit.net",
17  "pan": "HNC73ARA1LF",
18  "highestQualification": "MDS",
19  "college": "Arcu Limited",
20  "totalYearsOfExp": 48,
21  "rating": 5.0
22 }
```

Get all specialities

GET Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Type: Inherit aut...
The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)

This request is using No Auth from collection [consultation](#).

Body Cookies Headers (12) Test Results Status: 200 OK Time: 33 ms Size: 700 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 [
2   "CARDIOLOGIST",
3   "GENERAL_PHYSICIAN",
4   "DENTIST",
5   "PULMONOLOGIST",
6   "ENT",
7   "GASTRO"
8 ]
```

3. User

Register a user

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://localhost:8080/users/register
- Body:** A JSON object with the following fields:

```
{  "firstName": "nhi",  "lastName": "nguyen",  "dob": "1.1.1997",  "mobile": "1234567890",  "emailId": "nhi.nguyen@mail.com",  "password": "12345"}
```
- Status:** 200 OK
- Time:** 301 ms
- Size:** 652 B
- Response Body:** 1 User registered successfully.

Log a user in

POST ⌵ http://localhost:8080/auth/login Send ⌵

Params **Authorization** • Headers (8) Body Pre-request Script Tests Settings Cookies

Type Basic Auth ⌵

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#) ↗

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about [variables](#) ↗

Username nhi.nguyen@mail.com

Password 12345 ⚠

Body Cookies Headers (12) Test Results ⌕ Status: 200 OK Time: 122 ms Size: 1.08 KB 📄 Save as Example ⋮

Pretty Raw Preview Visualize JSON ⌵ ≡

```
1  {
2    "id": "nhi.nguyen@mail.com",
3    "firstName": "nhi",
4    "lastName": "nguyen",
5    "emailAddress": "nhi.nguyen@mail.com",
6    "mobilePhoneNumber": "1234567890",
7    "lastLoginTime": null,
8    "accessToken": "eyJraWQ1OiJmYTRmYjVjNS1mYjQ1LTQ4MWMtOWRlZS1hYjc1OWM5YTQ0Y2EiLCJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJhdWQiOiJuaGkubmd1eWVuQG1haWwY29tIiwiaXNzIjoiaHR0cHM6Ly9ib29rbXljb25zdWx0YXRpb24uY29tIiwiaXhwIjojNjk1MTUxLCJpYXQiOiJlZD00OTUxMjJ9.rYYwZjvWUfWhf1gdn4ZwAw5YVl6y3fh1f6qk8HWnoxYaViBJWf0deI-SMDVgv7R3p-hK7MDb8uIna0II_f7HKg"
9  }
```

Log a user out

POST ⌵ http://localhost:8080/auth/logout Send ⌵

Params **Authorization** • Headers (8) Body Pre-request Script Tests Settings Cookies

Type Bearer Tok... ⌵

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#) ↗

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about [variables](#) ↗

Token eyJraWQ1OiJmYTRmYjVjNS1mYjQ1LTQ4MWMtOWRlZS1hYjc1OWM5YTQ0Y2EiLCJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJhdWQiOiJuaGkubmd1eWVuQG1haWwY29tIiwiaXNzIjoiaHR0cHM6Ly9ib29rbXljb25zdWx0YXRpb24uY29tIiwiaXhwIjojNjk1MTUxLCJpYXQiOiJlZD00OTUxMjJ9.rYYwZjvWUfWhf1gdn4ZwAw5YVl6y3fh1f6qk8HWnoxYaViBJWf0deI-SMDVgv7R3p-hK7MDb8uIna0II_f7HKg

Body Cookies Headers (11) Test Results ⌕ Status: 200 OK Time: 33 ms Size: 582 B 📄 Save as Example ⋮

Pretty Raw Preview Visualize Text ⌵ ≡

```
1
```

Get a user by user id

GET <http://localhost:8080/users/nhi.nguyen@mail.com> Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer Tok... ⌵

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#) ↗

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about [variables](#) ↗

Token eyJraWQIOiJmYTdmYjVjNS1mYjQ1LTQ4MW...

Body Cookies Headers (13) Test Results Status: 200 OK Time: 36 ms Size: 888 B Save as Example

Pretty Raw Preview Visualize JSON ⌵

```
1 {
2   "firstName": "nhi",
3   "lastName": "nguyen",
4   "dob": "1.1.1997",
5   "mobile": "1234567890",
6   "emailId": "nhi.nguyen@mail.com",
7   "password": "AA879228D1383626",
8   "createdDate": "2023-09-19",
9   "salt": "jebFv6RVvHXLfJyiMuC7hSspqTd9GwxA00rzKTMBsw="
10 }
```

4. Appointment

Book an appointment

POST <http://localhost:8080/appointments> Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON ⌵

Beautifuly

```
1 {
2   "doctorId": "UUUD-90",
3   "doctorName": "Brandon Stanley",
4   "userId": "nhi.nguyen@mail.com",
5   "userName": "nhi.nguyen@mail.com",
6   "userEmailId": "nhi.nguyen@mail.com",
7   "timeSlot": "13:30 AM - 14:30 AM",
8   "status": "CONFIRMED",
9   "appointmentDate": "2023-09-18",
10  "symptoms": "Stomachache, headache",
11  "priorMedicalHistory": "None"
12 }
13
```

Body Cookies Headers (12) Test Results Status: 200 OK Time: 31 ms Size: 659 B Save as Example

Pretty Raw Preview Visualize Text ⌵

```
1 2aba8403-9bbc-418d-ac44-182a7cf9d05b
```


Get appointment by appointment id

GET

http://localhost:8080/appointments/2aba8403-9bbc-418d-ac44-182a7cf9d05b

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Type

Bearer Tok...

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Token

eyJraWQiOiJmYTJmYjVjNS1mYjQ1LTQ4MW...

Body

Cookies

Headers (12)

Test Results

Status: 200 OK

Time: 16 ms

Size: 979 B

Save as Example

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2    "appointmentId": "2aba8403-9bbc-418d-ac44-182a7cf9d05b",
3    "doctorId": "UUID-90",
4    "doctorName": "Brandon Stanley",
5    "userId": "nhi.nguyen@mail.com",
6    "userName": "nhi.nguyen@mail.com",
7    "userEmailId": "nhi.nguyen@mail.com",
8    "timeSlot": "13:30 AM - 14:30 AM",
9    "status": "CONFIRMED",
10   "appointmentDate": "2023-09-18",
11   "symptoms": "Stomachache, headache",
12   "priorMedicalHistory": "None"
13 }
```

Get appointments by user id

GET <http://localhost:8080/users/nhi.nguyen@mail.com/appointments> Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Type Bearer Tok... Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about [variables](#).

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#).

Token eyJraWQiOiJmYTlmYjVjNS1mYjQ1LTQ4MW...

Body Cookies Headers (12) Test Results Status: 200 OK Time: 40 ms Size: 1.65 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "appointmentId": "2aba8403-9bbc-418d-ac44-182a7cf9d05b",
4     "doctorId": "UUID-90",
5     "doctorName": "Brandon Stanley",
6     "userId": "nhi.nguyen@mail.com",
7     "userName": "nhi.nguyen@mail.com",
8     "userEmailId": "nhi.nguyen@mail.com",
9     "timeSlot": "13:30 AM - 14:30 AM",
10    "status": "CONFIRMED",
11    "appointmentDate": "2023-09-18",
12    "symptoms": "Stomachache, headache",
13    "priorMedicalHistory": "None"
14  },
15  {
16    "appointmentId": "55455f31-e311-451f-8ddb-4832470db0db",
17    "doctorId": "UUID-90",
18    "doctorName": "Brandon Stanley",
19    "userId": "nhi.nguyen@mail.com",
20    "userName": "nhi.nguyen@mail.com",
```

5. Rating

Submit rating

POST <http://localhost:8080/ratings> Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "doctorId": "UUID-90",
3   "appointmentId": "2aba8403-9bbc-418d-ac44-182a7cf9d05b",
4   "rating": 4.0,
5   "comments": "good service"
6 }
```

Body Cookies Headers (12) Test Results Status: 200 OK Time: 41 ms Size: 654 B Save as Example

Pretty Raw Preview Visualize Text

```
1 Ratings submitted successfully.
```

6. Exception handling for unavailable slot

The screenshot displays a REST client interface with a POST request to `http://localhost:8080/appointments`. The request body is a JSON object with the following fields:

```
1 {
2   "doctorId": "UUID-90",
3   "doctorName": "Brandon Stanley",
4   "userId": "nhi.nguyen@mail.com",
5   "userName": "nhi.nguyen@mail.com",
6   "userEmailId": "nhi.nguyen@mail.com",
7   "timeSlot": "13:30 AM - 14:30 AM",
8   "status": "CONFIRMED",
9   "appointmentDate": "2023-09-18",
10  "symptoms": "Stomachache, headache",
11  "priorMedicalHistory": "None"
12 }
13
```

The response status is `400 Bad Request` with a time of `47 ms` and size of `678 B`. The response body is a JSON object:

```
1 {
2   "code": "BAD_REQUEST",
3   "message": "Slot unavailable: null",
4   "root_cause": null
5 }
```