

# CSC309 Project Backend ⚡ 🏋️ 🐻

Team members: Vedant Prajapati, Kyle Blackie

## Model Architecture

See Miro board: [https://miro.com/app/board/uXjVPGVOeiA=/?share\\_link\\_id=14325970418](https://miro.com/app/board/uXjVPGVOeiA=/?share_link_id=14325970418)

We have also added photos from the Miro board in the appendix below.

## API Endpoints

### Users

#### Register User

Endpoint:

```
POST localhost:8000/users/signup/
```

Payload:

```
{
  "username": String,
  "password": String,
  "first_name": String,
  "last_name": String,
  "email": String,
  "phone_number": String
}
```

Description:

Registers a user using the information provided in the payload

Note: Upload user avatar images using form-data in postman

i.e.,

Params   Authorization   Headers (10)   **Body**   Pre-request Script   Tests   Settings

☐ none  
☒ form-data  
☐ x-www-form-urlencoded  
☐ raw  
☐ binary  
☐ GraphQL

	KEY	VALUE
<input checked="" type="checkbox"/>	avatar	griz88.jpg ×

## Edit User Profile

Endpoint:

```
PATCH localhost:8000/users/edit/
```

Note: requires Bearer Token

Payload:

```
{
  "username": String,
  "password": String,
  "first_name": String,
  "last_name": String,
  "email": String,
  "phone_number": String
}
```

Description:

Edit the authenticated user's profile with the payload provided.

Note: Upload user avatar images using form-data in postman

## Login User

Endpoint:

```
POST localhost:8000/users/login/
```

Payload:

```
{
  "username": String,
  "password": String
}
```

Description:

Get a JWT access token for a user by providing valid user credentials.

## Add Credit/Debit Card Information

Endpoint:

```
POST localhost:8000/users/card/create/
```

Payload:

```
{
  "card_type": "DB",
  "card_number": "126",
  "card_holder_name": "leaf",
  "expiry_date": "2025-01-10T00:00:00Z",
  "security_code": "420"
}
```

Description:

Adds debit/credit card information to a user

## Update Credit/Debit Card Information

Endpoint:

```
PUT localhost:8000/users/card/edit/
```

Payload:

```
{
  "card_type": "DB",
  "card_number": "126",
  "card_holder_name": "leaf",
  "expiry_date": "2025-01-10T00:00:00Z",
  "security_code": "420"
}
```

Description:

Updates debit/credit card information of a user

## Studios

### List Nearby Studios

Endpoint:

```
GET localhost:8000/studios/list?location=toronto
```

Payload:

```
{}
```

Note: You can also filter studio results using query parameters

GET

▼

localhost:8000/studios/list?location=toronto&name= {{studio\_name}} &coach= {{coach\_name}} &class\_name= {{class\_name}}

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Query Params

	KEY	VALUE
<div><div><div>⌵</div><div>✓</div></div></div>	location	toronto
<div><div><div>✓</div></div></div>	name	{{studio_name}}
<div><div><div>✓</div></div></div>	coach	{{coach_name}}
<div><div><div>✓</div></div></div>	class_name	{{class_name}}
	Key	Value

### Description:

Returns studios matching filters in order of distance from location query parameter

## Individual Studio Info

### Endpoint:

```
GET localhost:8000/studios/<int:studio_id>/
```

### Payload:

```
{}
```

### Description:

Returns information for a single studio.

Note: You can also get directions to the studio by passing in “location” as a query parameter representing your starting location.

I.e.,

```
GET localhost:8000/studios/<int:studio_id>/?location=toronto
```

## Subscriptions

### Get all the available subscription options

### Endpoint:

```
GET localhost:8000/subscriptions/list/
```

Note: requires Bearer Token

### Payload:

```
{}
```

### Description:

Display all the subscription models that users can subscribe to.

## Subscribe to subscription

### Endpoint:

```
PATCH localhost:8000/subscriptions/subscribe/<int: subscription_id>/
```

Note: requires Bearer Token

### Payload:

```
{}
```

### Description:

Subscribe a user to a subscription and make their initial payment

## Cancel Current Subscription

### Endpoint:

```
PATCH localhost:8000/subscriptions/cancel/
```

Note: requires Bearer Token

### Payload:

```
{}
```

### Description:

Cancel the authenticated user's subscription if it exists

## Get Payment History

Endpoint:

```
GET localhost:8000/subscriptions/payments/history/
```

Note: requires Bearer Token

Payload:

```
{}
```

Description:

Returns the user's previously made payments.

## Get Upcoming Payments

Endpoint:

```
GET localhost:8000/subscriptions/payments/future/
```

Note: requires Bearer Token

Payload:

```
{}
```

Description:

Returns info about the user's upcoming payments.

## Python Function to Make all user payments that are due today

Function can be found in subscriptions/views. Please run:

```
cd TorontoFitnessClub
./manage.py shell
>> from subscriptions.views import pay_user_subscriptions_due_today
```

```
>> pay_user_subscriptions_due_today
```

Function Code:

```
def pay_user_subscriptions_due_today():
    users = User.objects.all()
    if not users:
        print("No users found")
        return

    for user in users:
        if user.subscription:
            payment = user.payments.order_by("-date").first()
            if (
                payment
                and payment.date.date()
                + relativedelta(months=user.subscription.term_length)
                == datetime.date.today()
                and user.card
            ):
                # pay the subscription
                Payment.objects.create(
                    user=user,
                    amount=user.subscription.cost,
                    card_holder_name=user.card.card_holder_name,
                    card_type=user.card.card_type,
                    card_number=user.card.card_number,
                    expiry_date=user.card.expiry_date,
                    security_code=user.card.security_code,
                )
                print(f"Paid {user.subscription.cost} for {user.username}")
            else:
                print(f"Card invalid for {user.username} or payment not due")
        else:
            print(f"No subscription for {user.username}")
```



# Classes

Display the classes taught in a specified studio

Endpoint:

```
GET localhost:8000/classes/<int: studio_id>/schedule/
```

Payload:

```
{}
```

Query Params for filtering:

Params <span>•</span> Authorization Headers (6) Body Pre-request Script Tests Settings		
Query Params		
	KEY	VALUE
<input checked="" type="checkbox"/>	name	{{class_name}}
<input checked="" type="checkbox"/>	coach	{{coach_name}}
<input checked="" type="checkbox"/>	date_before	2022-12-30%20:00
<input checked="" type="checkbox"/>	time_before	2022-12-30%20:00
	Key	Value

Description:

Display all the class sessions matching the user's query parameters for a given studio

Display the upcoming class schedule for a user

Endpoint:

```
GET localhost:8000/classes/schedule/
```

Note: requires Bearer Token

Payload:

```
{}
```

### Description:

Display all the upcoming class sessions for the user that are not cancelled

## Display the user's class history

### Endpoint:

```
GET localhost:8000/classes/history/
```

Note: requires Bearer Token

### Payload:

```
{}
```

### Description:

Display all the past class sessions that a user was in enrolled in

## Enrol in a class

### Endpoint:

```
PATCH localhost:8000/classes/class/<int:class_id>/enrol/
```

Note: requires Bearer Token

### Payload:

```
{}
```

### Description:

Enrols a user in all upcoming class sessions whose class matches the specified class id

## Drop a class

Endpoint:

```
PATCH localhost:8000/classes/class/<class_id>/drop/
```

Note: requires Bearer Token

Payload:

```
{}
```

Description:

Drops all upcoming class sessions of a class from a user

## Enrol in a class session

Endpoint:

```
PATCH localhost:8000/classes/session/<int: class_session_id>/enrol/
```

Note: requires Bearer Token

Payload:

```
{}
```

Description:

Enrols a user in an upcoming class session whose class

## Drop a class session

Endpoint:

```
PATCH localhost:8000/classes/session/<int: class_session_id>/drop/
```

Note: requires Bearer Token

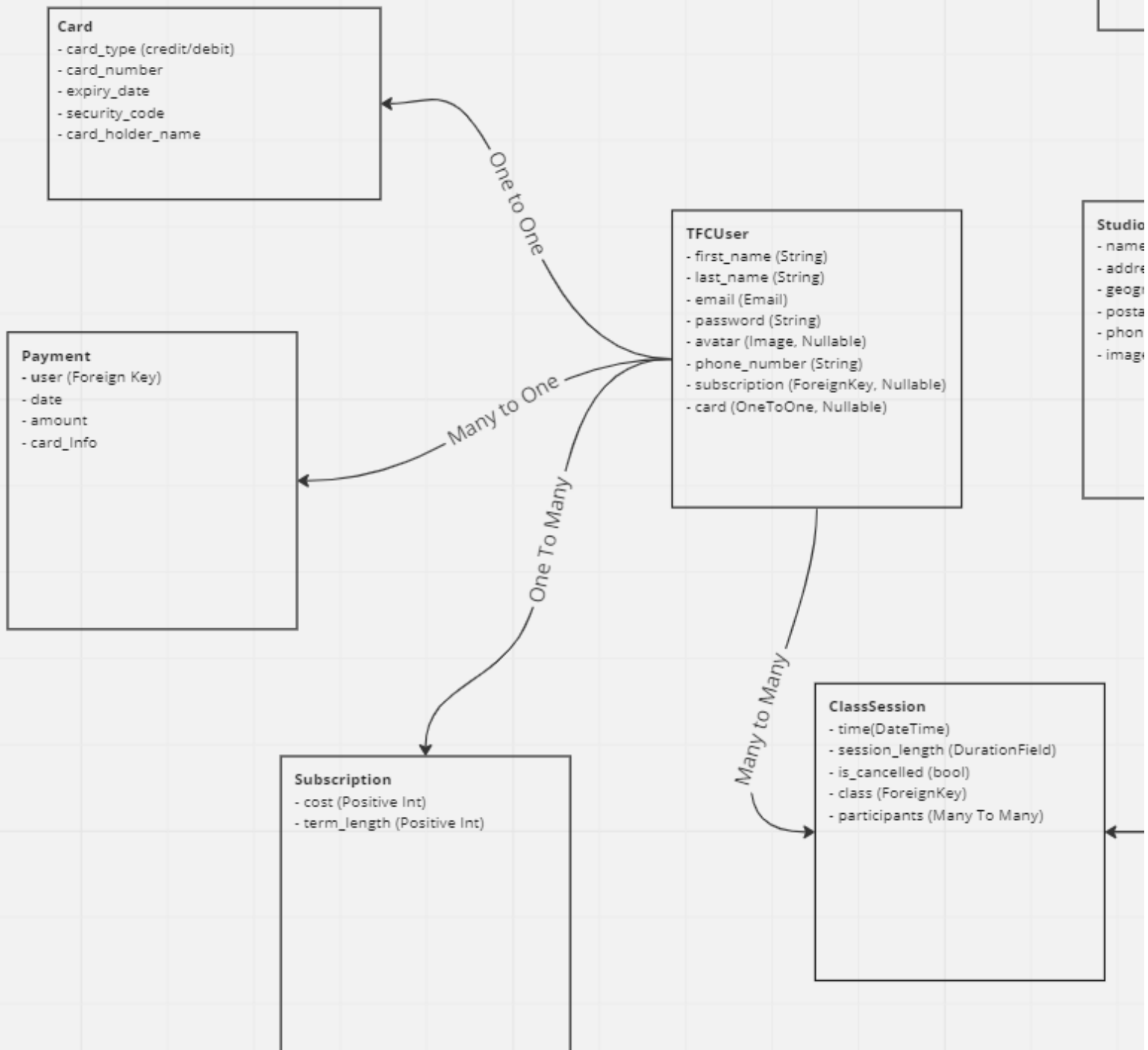
Payload:

```
{}
```

Description:

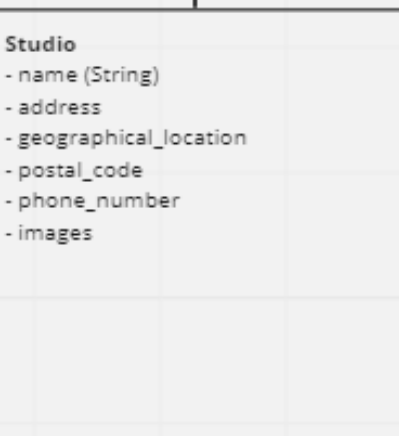
Drop a user from a class session matching the session\_id

## Appendix:





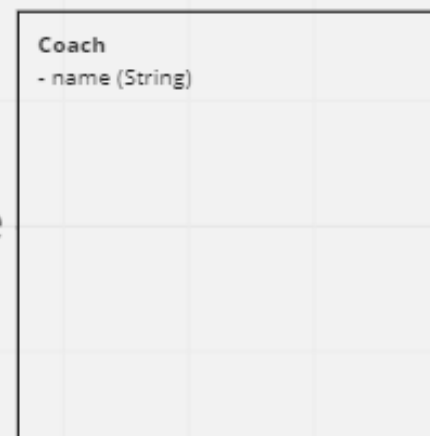
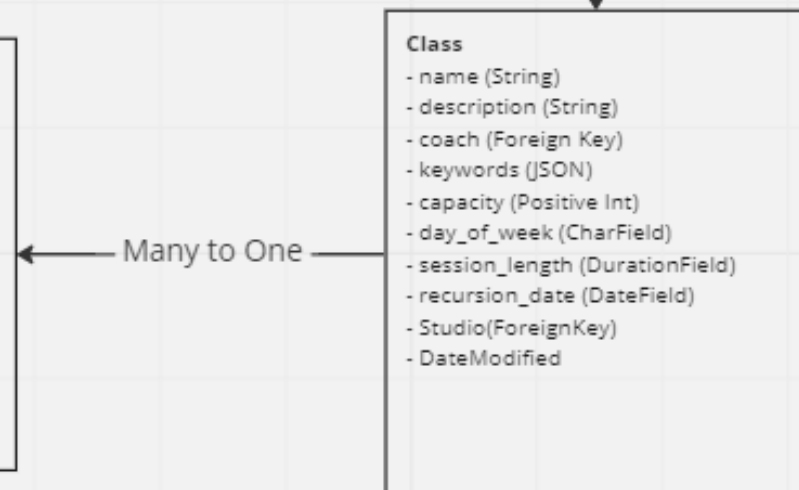
One to Many



One to Many



Many to One



many to one

