

Design of models

Accounts:

We are using JWT to manage authentication. Thus the login is handled automatically and the user is returned a token to access the server.

We are using the default User module to store the username, password, email,

- **Avatar:**
Avatar essentially acts as the custom user model
User: Foreign Key to the Default User Model
Avatar : Stores the Image of the User
- **Card:**
User: Foreign Key to the Default User Model
Name: Name of the card
Number: Card Number

Studios:

For the studios we have three models to incorporate the studio details, the details of the amenities, and for the set of images

- **Studios :**
Fields: Name, Address, Longitude, Latitude, Postal Code, Phone Number, and User Distance.
- **Studio Images:**

Each studio stores a set of images, we have included this in our design by creating another model which stores an image along with the studio as the Foreign Key.

Fields:

Studio - Foreign Key to Studios
Image - Image corresponding to the studio

- **Studio Amenities:**
Stores the studio amenities, which can be edited as the website admin
Studio - Foreign Key to Studios
Type - The type of amenity
Quantity - The quantity of the amenity

Classes:

In order to implement the class methods, we are using three models, Class, ClassInstance, UserEnrolled. The classInstance model helps us implement recurring classes. The UsersEnrolled model helps us store the enrolled students in a class.

- **Class:**

- studio = Foreign Key to Studios
- name = Name of the Class
- description = Class Description
- coach = Name of the coach for the class
- capacity = Maximum number of students allowed
- start_time = Start Time of the Class

end_time = End of the class

period = Duration between two classes

keywords = Keywords associated with the class

- **ClassInstance:**

Fields:

ClassObj: Foreign Key to Class

Time: Time of the class

CurrentCapacity: Stores the current capacity of the class

- **UsersEnrolled:**

Fields:

User - ForeignKey to the Default user model

ClassInstance - ForeignKey to the User

Subscriptions:

1. **Subscription:** This enables creating a link between the Studio and the Subscription Plan model. A User creates a link ie: a subscription with the Studio through this model

Studio: Foreign Key to the Studio to which the Subscription is made

User: Foreign Key to the Default User Model

Plan: Foreign Key to the Subscription Plan

Start Date: Start Date of the Subscription

End Date: End Date of the Subscription

Payment Date: Date when the payment for the subscription was made

Card Name: Card Used to make the subscription

Card Number: Card Number of the card used to make the subscription

2. **SubscriptionPlan:** These are the plans available for selection for the users. Users select from these available subscription options.

name = Name of the Subscription

price = Price of the subscription

duration = Duration of the subscription

description = Description of the subscription plan

subscription_type = Type of the subscription

Important Note:

While using Postman, please set the access token as the environment variable “token”. This will enable authentication since we mentioned {{token}} as our Bearer Token for authentication

Snippet API



Authentication	none
Source Code	shell

Snippet API

```
# Install the command line client
$ pip install coreapi-cli
```

accounts

add_card > create

POST /accounts/add_card/

[↔ Interact](#)

Add or update card details. Mandtory fields: number, name

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action accounts add_card create
```

edit_profile > create

POST /accounts/edit_profile/

[↔ Interact](#)

Edit user profile. fields: username, password, email, first_name, last_name, avatar

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action accounts edit_profile create
```

login > create

POST /accounts/login/

[↔ Interact](#)

Takes a set of user credentials and returns an access and refresh JSON web token pair to prove the authentication of those credentials.

Request Body

The request body should be a "application/json" encoded object, containing the following items.

Parameter	Description
username required	
password required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action accounts login create -p username=... -p password=...
```

ping > list

GET /accounts/ping/

[⇌ Interact](#)

Test if the user is logged in

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action accounts ping list
```

refresh_token > create

POST /accounts/refresh_token/

[⇌ Interact](#)

Takes a refresh type JSON web token and returns an access type JSON web token if the refresh token is valid.

Request Body

The request body should be a "application/json" encoded object, containing the following items.

Parameter	Description
refresh required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action accounts refresh_token create -p refresh=...
```

signup > create

POST /accounts/signup/

 Interact

Create user profile. Mandatory fields: username, password, email, first_name, last_name. Optional fields: avatar

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action accounts signup create
```

studios

classes > drop > read

GET /studios/classes/drop/{id}/

 Interact

Drop a user from a class. Required fields: class id

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios classes drop read -p id=...
```

classes > drop > session > read

GET /studios/classes/drop/session/{id}/

 Interact

Drop a user from a class session. Required fields: class instance id

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios classes drop session read -p id=...
```

classes > enroll > read

GET /studios/classes/enroll/{id}/

[⇌ Interact](#)

Enroll a user in a class. Required fields: class id

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios classes enroll read -p id=...
```

classes > enroll > session > read

GET /studios/classes/enroll/session/{id}/

[⇌ Interact](#)

Enroll a user in a class session. Required fields: class instance id

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios classes enroll session read -p id=...
```

classes > search > list

GET /studios/classes/search/

[⇌ Interact](#)

Search for classes using name of the studio, class name, coach name, date, or range. Required fields: studio id

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios classes search list
```

closest > read

GET

 /studios/closest/{longitude}/{latitude}/
Return studios in the order of closest to user

⇌ Interact

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
longitude <div>required</div>	
latitude <div>required</div>	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios closest read -p longitude=... -p latitude=...
```

details > read

GET

 /studios/details/{id}/
Get the details of a studio. Required fields: studio id

⇌ Interact

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
id <div>required</div>	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios details read -p id=...
```


schedule > read

GET /studios/schedule/{id}/

⇌ Interact

Get the classes schedule of a studio. Required studio id

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios schedule read -p id=...
```

search > list

GET /studios/search/

⇌ Interact

Search for studios by name, type, class, coach (provided as query parameters)

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios search list
```

user > schedule > list

GET /studios/user/schedule/

⇌ Interact

Return the schedule of a user.

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action studios user schedule list
```

subscriptions

read

GET /subscriptions/{subscription_id}/
Get subscription details. Mandatory fields: subscription_id

[⇌ Interact](#)

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
subscription_id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action subscriptions read -p subscription_id=...
```

cancel > create

POST /subscriptions/{subscription_id}/cancel/
Enables a User to cancel subscription

[⇌ Interact](#)

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
subscription_id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action subscriptions cancel create -p subscription_id=...
```

create > create

POST /subscriptions/create/
Enables Users to add a Subscription, ie: subscribe to one of the available subscriptions.

[⇌ Interact](#)

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action subscriptions create create
```

paymenthistory > list

GET /subscriptions/paymenthistory/

 Interact

Gets the Payment history for Subscribed Subscriptions, if the User hasn't subscribed or has canceled a Subscription, they wouldn't be able to view the payment history.

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action subscriptions paymenthistory list
```

subscriptionplans > list

GET /subscriptions/subscriptionplans/

 Interact

Gets the Subscription Plans available for subscription for the users

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action subscriptions subscriptionplans list
```

update > create

POST /subscriptions/{subscription_id}/update/

 Interact

Enables editing the subscription, ie: enables Users to change Subscription Plans. For instance another plan is available ie: a yearly subscription, then the User can subscribe to that particular Plan.

Path Parameters

The following parameters should be included in the URL path.

Parameter	Description
subscription_id required	

```
# Load the schema document
$ coreapi get http://localhost:8000/docs/

# Interact with the API endpoint
$ coreapi action subscriptions update create -p subscription_id=...
```