

API Documentation

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Below is documentation for the REST APIs that were implemented. Note that optional field lists contain the fields that do not need to be included in the payload. All endpoints that require authentication require an access token to be added to the headers with key **Authorization** and value **Bearer {your token here}**.

Register User

- **Endpoint:** `/accounts/register/`
- **Methods:** `POST`
- **Auth Required:** `false`
- **Payload:** `email`, `phone`, `password`, `avatar`, `first_name`, `last_name`
- **Optional Fields:** `avatar`, `first_name`, `last_name`
- **Description:** Creates a user from the given information in the payload and stores it in the database. If `avatar` is not included in the payload, a default profile picture is used.

Generate User Login Token

- **Endpoint:** `/accounts/api/token/`
- **Methods:** `POST`
- **Auth Required:** `false`
- **Payload:** `email`, `password`
- **Description:** Generates and returns a refresh token and an access token upon receiving valid login information. Its intended use is to use the access token to provide a way to authenticate users through token authentication.

Edit User Profile

- **Endpoint:** `/accounts/edit/`
- **Methods:** `PUT`, `PATCH`
- **Auth Required:** `true`
- **Payload:** `email`, `phone`, `password`, `avatar`, `first_name`, `last_name`
- **Optional Fields:** `avatar`, `first_name`, `last_name`
- **Description:** Updates the user's profile based on the data provided in the payload. Detects which user needs to be updated through the auth token provided in the header. To prevent an optional field from being updated, do not include it in the payload. To prevent a required field from being updated, a `PATCH` request must be sent, and the field must be excluded from the payload as well.

View User Information

- **Endpoint:** `/accounts/view/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`
- **Description:** Returns information about the user given by `email`.

Get Studio Information

- **Endpoint:** `/studios/<studio_id>/info/`
- **Methods:** `GET`
- **Auth Required:** `false`
- **Description:** Returns the information about the studio with id `<studio_id>`. This includes its set of images and its amenities.

Get Closest Studios

- **Endpoint:** `/studios/closest/`
- **Methods:** `GET`
- **Auth Required:** `false`
- **Query Parameters:** `lat`, `long`, `page`
- **Description:** Returns a paginated list of studios that are ordered by closest geographical distance from the latitude and longitude specified in `lat` and `long`, respectively. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data. If `lat` and `long` are invalid decimal numbers, returns an empty list of studios. Multiple query parameters of the same type can be specified, but only the last one will be processed.

Enroll in One Class

- **Endpoint:** `/studios/classes/<class_id>/enroll/one/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`, `date`
- **Description:** Enrolls the user given by `email` in class `<class_id>` on date `date`, subject to the constraints outlined in the project handout. The format of `date` is YYYY-MM-DD.

Enroll in All Classes

- **Endpoint:** `/studios/classes/<class_id>/enroll/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`
- **Description:** Enrolls the user given by `email` in all classes given by `<class_id>`, subject to the constraints outlined in the project handout.

Drop One Class

- **Endpoint:** `/studios/classes/<class_id>/drop/one/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email, date`
- **Description:** Drops the user given by `email` from class `<class_id>` on date `date`, subject to the constraints outlined in the project handout. The format of `date` is YYYY-MM-DD. Note that dropping from a future class that is cancelled is allowed.

Drop All Classes

- **Endpoint:** `/studios/classes/<class_id>/drop/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`
- **Description:** Drops the user given by `email` from all classes given by `<class_id>`, subject to the constraints outlined in the project handout. Note that dropping from future classes that are cancelled is allowed.

Get Studio Class Schedule

- **Endpoint:** `/studios/<studio_id>/schedule/`
- **Methods:** `GET`
- **Auth Required:** `false`
- **Query Parameters:** `page`
- **Description:** Returns a paginated list of future and active class instances that take place in studio `<studio_id>`. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data. Multiple query parameters of the same type can be specified, but only the last one will be processed.

Get User Class Schedule

- **Endpoint:** `/studios/classes/user/schedule/<user_id>/`
- **Methods:** `GET`
- **Auth Required:** `true`
- **Query Parameters:** `page`
- **Description:** Returns a paginated list of future class instances that the user is enrolled in, including cancelled class instances. The list is ordered chronologically. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data. Multiple query parameters of the same type can be specified, but only the last one will be processed.

Get User Class History

- **Endpoint:** `/studios/classes/user/history/<user_id>/`
- **Methods:** `GET`
- **Auth Required:** `true`

- **Query Parameters:** `page`
- **Description:** Returns a paginated list of past class instances that the user was enrolled in, including class instances that were cancelled. The list is ordered chronologically. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data. Multiple query parameters of the same type can be specified, but only the last one will be processed.

Search/Filter Studios

- **Endpoint:** `/studios/search/`
- **Methods:** `GET`
- **Auth Required:** `false`
- **Query Parameters:** `name`, `amenity`, `class-name`, `coach`, `page`
- **Description:** Filter through all studios and return a paginated list of those matching all the arguments given in the query parameters. Multiple query parameters of the same type can be specified, and this results in an or condition filter. For example, if the query string is `name=Studio&name=LA&coach=Ron`, we return a list of all studios whose name is “Studio” or “LA” and that have classes coached by “Ron”. The performed search is **not** case-sensitive. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data.

Search/Filter Through a Studio’s Class Schedule

- **Endpoint:** `/studios/<studio_id>/classes/search/`
- **Methods:** `GET`
- **Auth Required:** `false`
- **Query Parameters:** `class-name`, `coach`, `date`, `start-time`, `end-time`, `page`
- **Description:** Filter through all class instances of studio `<studio_id>` and return a paginated list those matching all the arguments given in the query parameters. Multiple query parameters of the same type can be specified, and this results in an or condition filter. For example, if the query string is `coach=Ron&coach=John&class-name=Core%20Training`, we return a list of all class instances in `<studio_id>` whose coach is “Ron” or “John” and whose name is “Core”. The performed search is **not** case-sensitive. The format of `date` is YYYY-MM-DD and the format of both `start-time` and `end-time` is hh-mm-ss. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data.

Subscribe User

- **Endpoint:** `/subscriptions/subscribe/<plan_id>/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`, `card_number`, `cardholder_name`, `expiration_date`, `cvv`
- **Description:** Subscribes the user given by `email` to the subscription plan given by `plan_id`. Does **not** update existing subscriptions. Updating subscriptions for users with active subscriptions (subscriptions in which the last billing period is not over¹) should be done through the subscription update API instead. `expiration-date` is of the form MM-YYYY.

¹Notice this includes cancelled subscriptions in which we are still within the user’s billing period.

Update Payment Card

- **Endpoint:** `/subscriptions/update/card/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`, `card_number`, `cardholder_name`, `expiration_date`, `cvv`
- **Description:** Updates the payment card of the user given by `email` if the user already has an active subscription. `expiration-date` is of the form MM-YYYY.

Get User Payment History

- **Endpoint:** `/subscriptions/user/<user_id>/payments/history/`
- **Methods:** `GET`
- **Auth Required:** `true`
- **Query Parameters:** `page`
- **Description:** Returns a paginated list of the payment history of the user given by `user_id`. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data. Multiple query parameters of the same type can be specified, but only the last one will be processed.

Get User Future Payments

- **Endpoint:** `/subscriptions/user/<user_id>/payments/future/`
- **Methods:** `GET`
- **Auth Required:** `true`
- **Description:** Returns information about a user's next scheduled payment. The user is given by `user_id`. If the user does not have a subscription or their subscription has been cancelled, returns no information.

Update User Subscription Plan

- **Endpoint:** `/subscriptions/update/plan/<plan_id>/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`
- **Description:** Updates a user's subscription plan to the subscription plan specified by `<plan_id>` if the user already has a subscription. The user is given by `user_id`.

Cancel User Subscription

- **Endpoint:** `/subscriptions/cancel/`
- **Methods:** `POST`
- **Auth Required:** `true`
- **Payload:** `email`
- **Description:** Cancels the user's subscription plan if the user already has a non-cancelled subscription. The user is given by `user_id`.

Get All Subscription Plans

- **Endpoint:** `/subscriptions/plans/all/`
- **Methods:** `GET`
- **Auth Required:** `false`
- **Query Parameters:** `page`
- **Description:** Returns a paginated list of all subscription plans that are offered. Set `page = <num>` to view page `<num>`. If `page` is unspecified, returns the first page of data. Multiple query parameters of the same type can be specified, but only the last one will be processed.