

# Authentication

## POST /api/user

Attempt to create a new user. If the user already exists or the email/password are invalid, the request will be rejected.

### Request Body

```
application/json

{"email": "string",
 "password": "string"}
```

### Status Codes

- 201:** user created successfully
- 400:** invalid email/password, or user already exists
- 500:** internal server error

## POST /api/session

Attempt to log in as a user. If the user does not exist or the password is incorrect, the request will be rejected.

### Request Body

```
application/json

{"email": "string",
 "password": "string"}
```

### Status Codes

- 201:** login successful
- 401:** invalid email/password
- 500:** internal server error

## GET /api/session

Returns 200 if the user is logged in.

### Status Codes

- 200:** session information retrieved successfully
- 401:** user is not logged in
- 500:** internal server error

## DELETE /api/session

Attempt to log out the current user.

### Status Codes

- 204:** logout successful
- 401:** user is not logged in
- 500:** internal server error

# OpenAI

## POST /api/image

Use OpenAI to generate a list of ingredients from an image. Returns a JSON array of strings.

### Request Body

```
application/multipart-form-data

{"image": <image file>}
```

### Status Codes

- 200:** ingredients generated successfully
- 400:** invalid image file
- 401:** user is not logged in
- 429:** rate limit exceeded
- 500:** internal server error

## GET /api/recipes

User OpenAI to generate a list of recipe ideas based on the user's ingredients in the database. Returns a JSON array of strings.

### Status Codes

- 200:** recipes generated successfully
- 400:** no ingredients in database
- 401:** user is not logged in
- 429:** rate limit exceeded
- 500:** internal server error

## GET /api/recipe/generate

User OpenAI to generate a a recipe ideas based on the user's ingredients in the database. Returns a JSON array of strings.

### Status Codes

- 200:** recipes generated successfully
- 400:** no ingredients in database
- 401:** user is not logged in
- 429:** rate limit exceeded
- 500:** internal server error

# Lists

The list endpoints allows a client to manage their ingredient and preference lists.

The lists are named after the plural of the items they contain. For example, a list of ingredients is named "ingredients", while a single entry in the list is called an "ingredient".

The endpoints that interact with a single item at a time are named using the singular of the list. For example, to add a single ingredient to the "ingredients" list, the endpoint is

**POST /api/ingredient/{ingredient}**

The server currently supports the following lists, presented here in plural.

- ingredients
- ingredient-exclusions
- recipe-exclusions

## GET /api/your-items

Retrieve a list of all strings in the corresponding database list.

Example: GET /api/ingredients

### Form Parameters

**your-items:** the plural name of the list to retrieve

### Status Codes

- 200:** list retrieved successfully
- 401:** user is not logged in
- 500:** internal server error

## PUT /api/your-items

Add an array of new items to the database. The request body should be a JSON array of strings.

Example: PUT /api/ingredients

### Form Parameters

**your-items:** the plural name of the list to add items to

### Request Body

```
application/json

{"items": [
  "string",
  "string",
  ...
]}
```

### Status Codes

- 204:** items added successfully
- 400:** invalid data in request body
- 401:** user is not logged in
- 500:** internal server error

## DELETE /api/your-items

Delete a list of items from the corresponding database list.

Example: DELETE /api/ingredients

### Form Parameters

**your-items:** the plural name of the list to delete items from

### Request Body

```
application/json

{"items": [
  "string",
  "string",
  ...
]}
```

### Status Codes

- 204:** items deleted successfully
- 400:** invalid data in request body
- 401:** user is not logged in
- 500:** internal server error

## POST /api/your-item/item

Add a single item to the list.

Example: POST /api/ingredient/broccoli

### Form Parameters

**your-item:** the singular name of the list to add items to

**item:** the item to add

### Status Codes

- 204:** item added successfully
- 400:** invalid item name
- 401:** user is not logged in
- 404:** item not found
- 500:** internal server error

## PUT /api/your-item/item-name/new-name

Update the name of an item in the list.

### Form Parameters

**your-item:** the singular name of the list to update items in

**item-name:** the item to update

**new-name:** the new name of the ingredient

### Status Codes

- 204:** item updated successfully
- 400:** invalid item name or new name
- 401:** user is not logged in
- 404:** item not found
- 500:** internal server error

## DELETE /api/your-item/ingredient

Delete an ingredient from the database.

### Form Parameters

**your-item:** the singular name of the list to delete items from

**ingredient:** the item to delete

### Status Codes

- 204:** ingredient deleted successfully
- 400:** invalid ingredient name
- 401:** user is not logged in
- 404:** ingredient not found
- 500:** internal server error