

# CSC309 Group 431

The APIs are categorized by the apps in Django:

- accounts
- recipes
- userdata
- userfunction

---

## accounts

Accounts APIs are responsible for login, signup, update user profiles.

---

### POST Sign Up

http://127.0.0.1:8000/accounts/signup/

Sign Up requires the user to enter a unique username and email with passwords of at least 8 characters.

The response will return a JSON object with filed username and email.

Note:

- Password will not be returned.
- When signing up, users cannot add their phone and avatar.

Example Payload:

#### Plain Text

```
payload={ 'username': 'test',  
  'email': 'test@gmail.com',  
  'password': 'qwertyuiop32392',  
  'password2': 'qwertyuiop32392' }
```

---

### Body formdata

username

test

Username must be unique

email	test@gmail.com
	Email must be unique
password	qwertyuiop32392
	Password must be at least 8 characters
password2	qwertyuiop32392
	Password must be at least 8 characters

---

## POST Log In

```
http://127.0.0.1:8000/accounts/login/
```

The response will return user's information except for password.

Example Payload:

### Plain Text

```
payload={'username': 'test',  
'password': 'qwertyuiop32392'}
```

## Body formdata

username	test
	This field is required
password	qwertyuiop32392
	This field is required

---

## POST Log Out



```
http://127.0.0.1:8000/accounts/logout/
```

Log Out does not take any user inputs but it will ask the user to be logged in first in order to log out.

---

## AUTHORIZATION Bearer Token

PUT Edit Profile

🔒

http://127.0.0.1:8000/accounts/profile/edit/

Edit Profile allows users to add phone numbers and avatars.

Note: When signing up, users cannot add their phone and avatar.

Example Payload:

Plain Text

```
payload={'username': 'test',
'email': 'test@gmail.com',
'password': 'ehwrqjklhejklqw',
'password2': 'ehwrqjklhejklqw',
'phone': '12345678'}
files=[
  ('avatar', ('01_A_1.jpg', open('/Users/jingwenshi/Downloads/asl_data/test/A/01_A_1.jpg', 'rb')), '
']
```

AUTHORIZATION Bearer Token

Body formdata

username	test
	Username must be unique
email	test@gmail.com
	Email must be unique
password	ehwrqjklhejklqw
	Password must be at least 8 characters long
password2	ehwrqjklhejklqw
	Password must be at least 8 characters long
phone	12345678
	This field is not required
avatar	This field is not required

## GET Get Profile



```
http://127.0.0.1:8000/accounts/profile/details/
```

Returns a JSON response with all fields of the current user (except for password).

## AUTHORIZATION Bearer Token

Token	{{token}}
-------	-----------

## recipes

recipe APIs contains all recipe related methods:

- Create, Update, Delete Recipe/RecipeIngredient/Step
- Create Ingredient
- Get Recipe

Note:

- Ingredient and RecipeIngredient are two different models. Ingredient is a model that contains unique ingredient names. And Recipe Ingredient is a model with 2 FK pointed to Recipe and Ingredient and 2 attributes of amount and unit.
- Step is a model contains a description of the current step and a FK pointed the Recipe model.
- For more details, please refer to the Model descriptions.

## POST Create Recipe



```
http://127.0.0.1:8000/recipes/create-recipe/
```

Example Payload:

### Plain Text

```
payload={'title': 'How to make Soup Bao',
'description': 'A delicious dish!',
'time': '2',
'time_unit': 'hours',
'cuisine': 'Chinese',
'diet': 'Others'}
files=[
    ('picture', ('01_A_1.jpg', open('/Users/jingwenshi/Downloads/asl_data/test/A/01_A_1.jpg', 'rb')),
]
```

**AUTHORIZATION** Bearer Token

---

**Token** {{token}}

**Body** formdata

---

<b>title</b>	How to make Soup Bao This field is required
<b>description</b>	A delicious dish! This field is required
<b>picture</b>	This field is required
<b>time</b>	2 This field is required
<b>time_unit</b>	hours This field is required
<b>cuisine</b>	Chinese This field is required
<b>diet</b>	Others This field is required

---

**PUT** Update Recipe



http://127.0.0.1:8000/recipes/recipe=1/RUD-recipe/

A recipe id must be passed to the endpoint url after the equal sign.

The payload is the same as Create Recipe

**AUTHORIZATION** Bearer Token

---

**Token** {{token}}

**Body** formdata

---

<b>title</b>	How to make Soup Dumplings This field is required
--------------	--

description	This is a traditional chinese dish! This field is required
picture	This field is required
time	3 This field is required
time_unit	hours This field is required
cuisine	Chinese This field is required
diet	Others This field is required

---

## DELETE Delete Recipe



```
http://127.0.0.1:8000/recipes/recipe=1/RUD-recipe/
```

Delete a specific recipe from the current user.

A recipe id must be passed to the endpoint url after the equal sign.

## AUTHORIZATION Bearer Token

Token	{{token}}
-------	-----------

---

## POST Create Ingredient



```
http://127.0.0.1:8000/recipes/recipe=1/create-ingredient/
```

Note: Once an ingredient is created, it cannot be deleted. But a RecipeIngredient can be deleted from a user's recipe.

Example Payload:

Plain Text

```
payload={ 'name': 'Pork' }
```

**AUTHORIZATION** Bearer Token

---

**Token** {{token}}

**Body** formdata

---

**name** Pork  
This field is required

---

**POST** Create Recipe Ingredient



http://127.0.0.1:8000/recipes/recipe=1&ingredient=1/create-recipe-ingredient/

A recipe id and ingredient id must be passed to the endpoint url after the equeal sign.

Note: The name of the ingredient should be passed in as an id in the endpoint. For more details, please refer to the model descriptions.

Example Payload:

Plain Text

payload={ 'amount': '500',  
'unit': 'grams' }

---

**AUTHORIZATION** Bearer Token

---

**Token** {{token}}

**Body** formdata

---

**amount** 500  
This field is required

**unit** grams  
This field is required

---

**PUT** Update Recipe Ingredient



```
http://127.0.0.1:8000/recipes/recipe=1&ingredient=1/RUD-recipe-ingredient/
```

A recipe id and ingredient id must be passed to the endpoint url after the equal sign.

The payload is the same as Create Recipe Ingredient.

## AUTHORIZATION Bearer Token

---

**Token** {{token}}

**Body** formdata

---

<b>amount</b>	400
	This field is required
<b>unit</b>	grams
	This field is required

---

## DELETE Delete Recipe Ingredient



```
http://127.0.0.1:8000/recipes/recipe=1&ingredient=1/RUD-recipe-ingredient/
```

A recipe id and ingredient id must be passed to the endpoint url after the equal sign.

Delete a RecipeIngredient from the current user's specific recipe.

## AUTHORIZATION Bearer Token

---

**Token** {{token}}

## POST Create Step



```
http://127.0.0.1:8000/recipes/recipe=1/create-step/
```

A recipe id must be passed to the endpoint url after the equal sign.

Note:

The number represents the step number and it is not unique. That is, a recipe can have multiple step 2. In the front end, the developer only simply displays the step in non-decreasing order and is the user's responsibility to organize their steps.

Example Payload:



## Plain Text

```
payload={'number': '1',  
'description': 'Mix pork with soy sauce'}  
files=[  
  ('picture', ('02_A_1.jpg', open('/Users/jingwenshi/Downloads/asl_data/test/A/02_A_1.jpg', 'rb'),  
  ]
```

## AUTHORIZATION Bearer Token

Token	{{token}}
-------	-----------

## Body formdata

number	1 This field is required
description	Mix pork with soy sauce This field is required
picture	This field is required

## PUT Update Step



```
http://127.0.0.1:8000/recipes/recipe=1&step=1/RUD-step/
```

A recipe id and step id must be passed to the endpoint url after the equal sign.

The payload is the same as Create Step.

## AUTHORIZATION Bearer Token

Token	{{token}}
-------	-----------

## Body formdata

number	1
description	Mix pork with salt for 3 mins
picture	

## DELETE Delete Step



```
http://127.0.0.1:8000/recipes/recipe=1&step=1/RUD-step/
```

A recipe id and step id must be passed to the endpoint url after the equal sign.

### AUTHORIZATION Bearer Token

Token	{{token}}
-------	-----------

## GET View/Get Recipe

```
http://127.0.0.1:8000/recipes/recipe=1/details/
```

Returns a JSON response with all fields of a recipe. In addition, it also returns the number of likes and a list of comments.

A recipe id must be passed to the endpoint url after the equal sign.

## userdata

userdata APIs contains all method to manipulate and modify user's data.

Note:

For all the models in userdata (Rating, Comment, LikedRecipe, BrowsedRecipe, FavouritedRecipe, Shopping) all have two FK pointed to the current user and a specific recipe. In addition, Rating has a score attribute and Comment has a message attribute.

Hence, you may need to pass in the id of the above models' instances to the endpoint.

## POST Create Rating



```
http://127.0.0.1:8000/userdata/recipe=1/create-rating/
```

When current user rated a recipe, the API will be called.

A recipe id must be passed to the endpoint url after the equal sign.

Example Payload:

```
Plain Text
```

```
payload={'score': '5'}
```

## AUTHORIZATION Bearer Token

**Token** {{token}}

**Body** formdata

**score** 5  
This field is required

## PUT Edit Rating



```
http://127.0.0.1:8000/userdata/rating=1/RU-rating/
```

A recipe id must be passed to the endpoint url after the equal sign.

The payload is the same as Create Rating.

## AUTHORIZATION Bearer Token

**Token** {{token}}

**Body** formdata

**score** 4

## POST Create Comment



```
http://127.0.0.1:8000/userdata/recipe=1/create-comment/
```

When the current user posted a comment to a recipe, this API will be called.

A recipe id must be passed to the endpoint url after the equal sign.

Example Payload:

Plain Text

```
payload={'message': 'This recipe is pretty good!'}
```

```
files=[
  ('file', ('01_A_1.jpg', open('/Users/jingwenshi/Downloads/asl_data/test/A/01_A_1.jpg', 'rb')), 'image/jpeg')
]
```

## AUTHORIZATION Bearer Token

---

Token {{token}}

## Body formdata

---

message This recipe is pretty good!

This field is required

file This field is required

---

## PUT Edit Comment



`http://127.0.0.1:8000/userdata/recipe=1&comment=1/RUD-comment/`

A recipe id and comment id must be passed to the endpoint url after the equal sign.

The payload is the same as Create Comment.

## AUTHORIZATION Bearer Token

---

Token {{token}}

## Body formdata

---

message This recipe is good, but each step could be more clear.

This field is required

file This field is required

---

## DELETE Delete Comment



`http://127.0.0.1:8000/userdata/recipe=1&comment=1/RUD-comment/`

Delete a comment based on its comment id.

A recipe id and comment id must be passed to the endpoint url after the equal sign.

## AUTHORIZATION Bearer Token

---

Token {{token}}

---

### POST Like Recipe



```
http://127.0.0.1:8000/userdata/recipe=1/create-liked-recipe/
```

Like Recipe does not have any payload. The endpoint will take the recipe id and the currently logged-in user to record this action to the model.

A recipe id must be passed to the endpoint url after the equal sign.

Example Payload: None

## AUTHORIZATION Bearer Token

---

Token {{token}}

---

### DELETE Delete Like Recipe



```
http://127.0.0.1:8000/userdata/liked-recipe=1/RD-liked-recipe/
```

Undo the action of like a recipe.

A LikedRecipe id must be passed to the endpoint url after the equal sign.

## AUTHORIZATION Bearer Token

---

Token {{token}}

---

### POST Create Browsed Recipe



```
http://127.0.0.1:8000/userdata/recipe=1/create-browsed-recipe/
```

Create Browsed Recipe does not have any payload. The endpoint will take the recipe id and the currently logged-in user to record this action to the model.

A recipe id must be passed to the endpoint url after the equal sign.

Example Payload: None

## AUTHORIZATION Bearer Token

---

Token {{token}}

---

## DELETE Delete Browsed Recipe



```
http://127.0.0.1:8000/userdata/browsed-recipe=1/RD-browsed-recipe/
```

Undo the action of browsing a recipe (delete browsing history).

A BrowsedRecipe id must be passed to the endpoint url after the equal sign.

## AUTHORIZATION Bearer Token

---

Token {{token}}

---

## POST Create Shopping Lst



```
http://127.0.0.1:8000/userdata/recipe=1/create-shopping-lst/
```

Create Shopping Lst does not have any payload. The endpoint will take the recipe id and the currently logged-in user to record this action to the model.

A recipe id must be passed to the endpoint url after the equal sign.

**Note:** ShoppingList model only takes recipe id and user id as the attributes/FK. If a user wants to view all the ingredients added to the shopping list, please refer to Get Shopping List

Example Payload: None

## AUTHORIZATION Bearer Token

---

Token {{token}}

---

## DELETE Delete Shopping Lst



```
http://127.0.0.1:8000/userdata/shopping-lst=1/RD-shopping-lst/
```

Delete a recipe from shopping list.

A shopping list id must be passed to the endpoint url after the equal sign.

## AUTHORIZATION Bearer Token

---

Token `{{token}}`

---

## POST Favorite Recipe



```
http://127.0.0.1:8000/userdata/recipe=1/create-favorited-recipe/
```

Favourite Recipe does not have any payload. The endpoint will take the recipe id and the currently logged-in user to record this action to the model.

A recipe id must be passed to the endpoint url after the equal sign.

Example Payload: None

## AUTHORIZATION Bearer Token

---

Token `{{token}}`

---

## DELETE Delete Favorite Recipe



```
http://127.0.0.1:8000/userdata/favorited-recipe=1/RD-favorited-recipe/
```

Remove a favoured recipe from the current user,

A favoured recipe id must be passed to the endpoint url after the equal sign.

## AUTHORIZATION Bearer Token

---

Token `{{token}}`

---

## User Function

userfunction provides a series of basic functionalities for a website.

### Note:

- All requests are GET and all data input will be sent as request parameters. Therefore, there is no payload for most of the APIs in this section.
- The data can be access through request\_parameters instead of self.context or self.kwargs

### Pagination:

- The developer can add page and count parameters for pagination in Searches, My Recipe and Popular Recipes.

---

## GET Ingredient Autocomplete



```
http://127.0.0.1:8000/userfunction/autocomplete/?ingredient=Po
```

Return a list of ingredient names.

This API is case-insensitive and return records based on the starting characters of a particular field value.

---

### AUTHORIZATION Bearer Token

Token	{{token}}
-------	-----------

---

### PARAMS

ingredient	Po
	This field is optional

---

## GET Popular Recipes

```
http://127.0.0.1:8000/userfunction/popular-recipes/
```

Return a list of recipes based on the number of likes in a non-increasing order.

---

## GET My Recipe



```
http://127.0.0.1:8000/userfunction/my-recipe/?page=1&count=2
```

Return three list of recipes of current logged in user:

- created
- favorited
- interacted (i.e. create, like, rate, or comment)

---

### AUTHORIZATION Bearer Token

Token	{{token}}
-------	-----------

---

### PARAMS



page	1
count	2

---

## GET Search by Name

```
http://127.0.0.1:8000/userfunction/search/name/?name=Soup&cuisine=Chinese&diet=Others&time=2&unit=hours&count=2&page=1
```

Return a list of recipes whose title contains a given input string, then filter by cuisine, diet, and time.

Recipes returned in the order of popularity, please refer to Popular Recipes API.

## PARAMS

---

name	Soup
	This field is optional
cuisine	Chinese
	This field is optional
diet	Others
	This field is optional
time	2
	This field is optional
unit	hours
	This field is optional
count	2
page	1

---

## GET Search by Creator

```
http://127.0.0.1:8000/userfunction/search/creator/?creator=test&cuisine=Chinese&diet=Others&time=2&unit=hours&page=1&count=2
```

Return a list of recipes whose creator's username contains a given input string, then filter by cuisine, diet, and time.

Recipes returned in the order of popularity, please refer to Popular Recipes API.

## PARAMS

---

creator	test This field is optional
cuisine	Chinese This field is optional
diet	Others This field is optional
time	2 This field is optional
unit	hours This field is optional
page	1
count	2

## GET Search by Ingredient

```
http://127.0.0.1:8000/userfunction/search/ingredient/?ingredient=Pork&cuisine=Chinese&diet=Others&time=2&unit=hours&page=1&count=2
```

Return a list of recipes whose ingredient's name contains a given input string, then filter by cuisine, diet, and time.

Recipes returned in the order of popularity, please refer to Popular Recipes API.

## PARAMS

---

ingredient	Pork This field is optional
cuisine	Chinese This field is optional
diet	Others This field is optional
time	2 This field is optional

unit	hours
	This field is optional
page	1
count	2

---

# GET Get Shopping List



http://127.0.0.1:8000/userfunction/shopping-list/

Return a list of ingredients and a total amount with unit.

## AUTHORIZATION Bearer Token

---

Token	{{token}}
-------	-----------

## Endpoint

Endpoint Parameters	Representation
uid	User ID
rid	Recipe ID
sid	Step ID
iid	Ingredient ID
riid	RecipeIngredient ID
cid	Comment ID
rtid	Rating ID
slid	Shopping List ID

### Signup

Endpoint: /accounts/signup/

Methods: Post

Description: signs up and creates a user

### Login

Endpoint: /accounts/login/

Methods: Post

Description: logs the user in with token auth

### View Profile

Endpoint: /accounts/profile/details/

Methods: Get

Description: displays the request user's information

Login required

### Edit Profile

Endpoint: /accounts/profile/edit/

Methods: Put

Description: updates the request user's information

Login required

### Create Recipe

Endpoint: recipes/create-recipe/

Methods: Post

Description: creates a recipe under the request user

Login required

Update Recipe

Endpoint: recipes/recipe=<rid>/RUD-recipe/

Methods: Put

Login required

Delete Recipe

Endpoint: recipes/recipe=<rid>/RUD-recipe/

Methods: Del

Description: delete a recipe

Login required

Create Ingredient

Endpoint: recipes/recipe=<rid>/create-ingredient/

Methods: Post

Description: create a raw ingredient

Create Recipe Ingredient

Endpoint: recipes/recipe=<rid>&ingredient=<iid>/create-recipe-ingredient/

Methods: Post

Description: add an ingredient to a recipe by creating a relation between them

Update Recipe Ingredient

Endpoint: recipes/recipe=<rid>&ingredient=<iid>/RUD-recipe-ingredient/

Methods: Put

Description: update an ingredient in a recipe

Delete Recipe Ingredient

Endpoint: recipes/recipe=<rid>&ingredient=<iid>/RUD-recipe-ingredient/

Methods: Del

Description: remove an ingredient in a recipe

Create Step

Endpoint: recipes/recipe=<rid>/create-step

Methods: Post

Description: create a step for a recipe

Update Step

Endpoint: recipes/recipe=<rid>&step=<sid>/RUD-step/

Method: Put

Description: update a step for a recipe

#### Delete Step

Endpoint: recipes/recipe=<rid>&step=<sid>/RUD-step/

Method: Del

Description: delete a step for a recipe

#### View Recipe

Endpoint: recipes/recipe=<rid>/details/

Method: Get

Description: display details of a recipe

#### Create Rating

Endpoint: userdata/recipe=<rid>/create-rating/

Method: Post

Description: create a rating by the user for a recipe

#### Edit Rating

Endpoint: userdata/recipe=<rid>/RU-rating/

Method: Put

Description: update a rating by the use for a receipt

#### Create Comment

Endpoint: userdata/recipe=<rid>/create-comment/

Method: Post

Description: create a comment by the user on a recipe

#### Edit Comment

Endpoint: userdata/recipe=<rid>/RUD-comment/

Method: Put

Description: edit a comment by the user on a recipe

#### Delete Comment

Endpoint: userdata/recipe=<rid>/RUD-comment/

Method: Del

Description: removes a comment for the user on a recipe

#### Liked Recipe

Endpoint: userdata/recipe=<rid>/create-liked-recipe/

Method: Post

Description: allows the user to like a recipe

#### Delete Liked Recipe

Endpoint: userdata/recipe=<rid>/RD-liked-recipe/

Method: Del

Description: unlike a recipe for the user

#### Favorite Recipe

Endpoint: userdata/recipe=<rid>/create-favorite-recipe/

Method: Post

Description: allows the user to favorite a recipe

#### Delete Favorite Recipe

Endpoint: userdata/recipe=<rid>/RD-favorited-recipe/

Method: Del

Description: unfavorite a recipe for the user

#### Create Shopping List

Endpoint: userdata/recipe=<rid>/create-shopping-list/

Method: Post

Description: place a recipe in the user's shopping list

#### Delete Shopping List

Endpoint: userdata/recipe=<rid>/RD-shopping-list/

Method: Del

Description: remove a recipe from the user's shopping list

#### Ingredient Autocomplete

Endpoint: userfunction/autocomplete/

Method: Get

Description: automatically completes the ingredient name that starts with user input

#### Popular Recipes

Endpoint: userfunction/popular-recipes/

Method: Get

Description: display a list of recipes sorted by the number of likes

#### My Recipe

Endpoint: userfunction/my-recipe/

Method: Get

Description: display all recipes the user created, favorited and interacted with in three separate lists. Interacted recipes include all recipes the user created, liked, rated or commented

#### Search by Name

Endpoint: userfunction/search/name/

Method: Get

Description: display recipes with the specified name

Search by Creator

Endpoint: userfunction/search/creator/

Method: Get

Description: display recipes created by a specific creator

Search by Ingredient

Endpoint: userfunction/search/ingredient/

Method: Get

Description: display recipes that contain a specific ingredient

Get Shopping List

Endpoint: userfunction/shopping-list/

Method: Get

Description: tally up all the ingredients in the user's shopping list items and display the total amount of each ingredient



## Model

### User

Attributes	Data Type	Nullable
Username	varchar	F
Email	varchar	F
Password1	varchar	F
Password2	varchar	F
Phone	varchar	T
Avatar	Image	T

### Recipe

Attributes	Data Type	Nullable
Title	varchar	F
User (FK)	ForeignKey(User)	F
Picture	Image	F
Description	varchar	F
Time	varchar	F
Time_unit	varchar	F
Cuisine	varchar	F
Diet	varchar	F

### Step

Attributes	Data Type	Nullable
Recipe (FK)	ForeignKey(Recipe)	F
Number	Int	F
Description	Text input	F
Picture	Image	F

### Ingredient

Attributes	Data Type	Nullable
Name	varchar	F

### RecipeIngredient

Attributes	Data Type	Nullable
Recipe (FK)	ForeignKey(Recipe)	F
Ingredient (FK)	ForeignKey(Ingredient)	F
Amount	Float	F
Unit	varchar	F

### Rating

Attributes	Data Type	Nullable
User (FK)	ForeignKey(User)	F
Recipe (FK)	ForeignKey(Recipe)	F
Score	Int	F

#### Comment

Attributes	Data Type	Nullable
User (FK)	ForeignKey(User)	F
Recipe (FK)	ForeignKey(Recipe)	F
Message	Text input	F
File	File upload	T

#### LikedRecipe

Attributes	Data Type	Nullable
User (FK)	ForeignKey(User)	F
Recipe (FK)	ForeignKey(Recipe)	F

#### FavoritedRecipe

Attributes	Data Type	Nullable
User (FK)	ForeignKey(User)	F
Recipe (FK)	ForeignKey(Recipe)	F

#### ShoppingList

Attributes	Data Type	Nullable
User (FK)	ForeignKey(User)	F
Recipe (FK)	ForeignKey(Recipe)	F