

ND Gourmand API

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1 Summary

All API calls documented here consist of an HTTP method and a relative path, and the path is relative to a configurable base URL.

2 Request

All API calls receive requests in the form of JSON. In general, the backend will refuse the request if it receives unexpected parameters.

3 Response

All responses, unless otherwise noted, are either formatted in JSON, whose MIME type is application/json, or HTML. JSON natively includes the types String, Number, Boolean, Array, Object as well as the singleton value null. In addition, this document uses Integer to refer to whole Numbers, Datetime String to refer to String values consisting of an absolute timestamp in the web-standard format ISO 8601, and Money String to refer to String values consisting of an unformatted representation of a floating point value. All JSON responses include the errors array, which is the APIs mechanism for reporting errors.

Error:

Parameter	Description	Type
Errors	A list of errors. The error cannot be null or undefined.	Array of error objects

Error object:

Parameter	Description	Type
Code	The error code	Integer
Message	The error message	String

4 Resource Overview

- /restaurants
- /restaurants/{restID}
- /restaurants/{restID}/menus
- /restaurants/{restID}/menus/{menuID}
- /restaurants/{restID}/menus/{menuID}/categori
- /restaurants/{restID}/menus/{menuID}/categories/{catID}
- /restaurants/{restID}/menus/{menuID}/categori/{catID}/items

- /restaurants/{restID}/menus/{menuID}/categories/{catID}/items/{itemID}
- /users
- /users/registration
- /users/{userID}
- /users/{userID}/currentorders
- /orders
- /orders/{orderID}
- /orders/{orderID}/items
- /orders/{orderID}/item/{orderItemID}

(1) /restaurants

Action	Description	Parameters
GET	Get the restaurant list (the main page). See below for JSON form.	None
POST	Add a new restaurant	**kwargs

Data model:

Field Name	Description	Type	Required
restID	Restaurant ID	varchar(20)	Yes
name	Restaurant name	varchar(45)	Yes
address	Restaurant address	varchar(100)	Yes
city	Location	varchar(45)	Yes
state	Location	varchar(20)	Yes
zip	Zip code	varchar(10)	Yes
phone	Phone	varchar(20)	Yes
lat	Latitude	decimal(10, 8)	Yes
lng	Longitude	decimal(11, 8)	Yes
url	Website url	varchar(100)	No

JSON form: {restID, name, lat, lng, address, city, state, zip, url}

POST response: None

Error messages:

Code	Text
5000	The restaurant already exists.

(2) /restaurants/{restID}:

Action	Description	Parameters
GET	return "GET /restaurants/{id=%s} ... RestaurantID.GET"	restID
PUT	Update a restaurant	restID, **kwargs
DELETE	Delete a restaurant	restID

(3) /restaurants/{restID}/menus:

Action	Description	Parameters
GET	Return the list of menus for a restaurant with restID. See below for JSON form.	restID
POST	Add a new menu	restID, **kwargs

Data model:

Field Name	Description	Type	Required
restID	Restaurant ID	varchar(20)	Yes
menuID	Menu ID	int(11)	Yes
menuName	Menu name	varchar(30)	No

JSON form:

```
{'href' : 'restaurants/{restID}/menus/{menuID}/categories', 'name' : menuName}
```

Error message:

Code	Text
1000	The menu already exists.

(4) /restaurants/{restID}/menus/{menuID}:

Action	Description	Parameters
GET	return "GET /restaurants/{restID=%s}/menus/{menuID=%s} ... MenuID.GET" % (restID,menuID)	restID, menuID
PUT	Update menu id for restaurant with restID	restID, menuID, **kwargs
DELETE	return "DELETE /restaurants/{restID=%s}/menus/{menuID=%s} ... MenuID.DELETE" % (restID,menuID)	restID, menuID

(5) /restaurants/{restID}/menus/{menuID}/categories:

Action	Description	Parameters
GET	return the list of categories from the five menuID. See below for JSON data.	restID, menuID
POST	Add a new category	restID, menuID, **kwargs

Data model:

Field Name	Description	Type	Required
menuID	Menu ID	int(11)	Yes
sectionID	Category ID	int(11)	Yes
sectionName	Category name	varchar(50)	No

JSON form: {

```
'href': 'restaurants/{restID}/menus/{menuID}/categories/{catID}/items,
```

```
'name': categoryName
```

```
}
```

(6) /restaurants/{restID}/menus/{menuID}/categories/{catID}:

Action	Description	Parameters
GET	return “GET /restaurants/{restID}/menus/{menuID}/categories/{catID} ... CategoryID.GET”	restID, menuID, catID
PUT	Update category id for restaurant id	restID, menuID, catID, **kwargs
DELETE	return “DELETE /restaurants/{restID}/menus/{menuID}/categories/{catID} ... CategoryID.DELETE”	restID, menuID, catID

(7) /restaurants/{restID}/menus/{menuID}/categories/{catID}/items:

Action	Description	Parameters
GET	Return the list of items for the given category and restaurant. See below for the JSON data form.	restID, menuID, catID
POST	Add a new item to the category	restID, menuID, catID, **kwargs

Data model:

Field Name	Description	Type	Required
menuID	Menu ID	int(11)	Yes
sectionID	Category ID	int(11)	Yes
itemID	Item ID	int(11)	Yes
name	Item name	varchar(30)	Yes
price	Item price	decimal(6, 2)	Yes
description	Item description	varchar(100)	Yes

JSON form: {

```
'href': '/restaurants/{restID}/menus/{menuID}/categories/{catID}/items/{itemID}',
'name': itemName,
'description': desc,
'price': price
}
```

(8) /restaurants/{restID}/menus/{menuID}/categories/{catID}/items/{itemID}:

Action	Description	Parameters
GET	return “GET /restaurants/{restID}/menus/{menuID}/categories/{catID} ... ItemID.GET”	restID, menuID, catID, itemID
PUT	Update the item ID	restID, menuID, catID, itemID, **kwargs
DELETE	return “DELETE /restaurants/{restID}/menus/{menuID}/categories/{catID} ... ItemID.DELETE”	restID, menuID, catID, itemID

(9) /users/registration:

Action	Description	Parameters
GET	Get the sign-up form.	None
POST	Create a new user	firstName, lastName, email, address, password, phone

JSON form: {

firstName,

lastName,

email,

address,

password,

phone,

}

POST response: Return the user information if the insertion is successful or the error message if failure.

Error Messages:

Code	Text
8000	User with the given email already exists
8001	Failed to add the user into database
8002	Some user information missing or invalid

(10) /users/{userID}/currentorders:

Action	Description	Parameters
GET	Get the order list of userID.	userID
DELETE	Delete the orders of userID from the database	userID

(11) /orders:

Action	Description	Parameters
GET	Return the list of orders	None
PUT	Add a new order or return the orderID for a given userID	userID

Data model:

Field Name	Description	Type	Required
orderID	Order ID	int	Yes
userID	User ID	int	Yes
paymentStatus	Payment	boolean	Yes

JSON form: {

'href': 'orders/{orderID}/orderitems',

'userID': userID,

'payment': payment

}

(12) /orders/{orderID}:

Action	Description	Parameters
GET	Get orderItemID, quantity	orderID
DELETE	Delete this order	orderID

Error Messages:

Code	Text
3000	OrderID Does Not Exist

(13) /orders/{orderID}/items/{orderitemID}:

Action	Description	Parameters
GET	Get orderItemID, quantity	orderID, itemID
PUT	Create or update an orderItem	orderID, itemID, **kwargs
DELETE	Delete an orderItem	orderID, itemID

Data model:

Field Name	Description	Type	Required
orderID	Order ID	varchar(20)	Yes
itemID	Item ID	int(11)	Yes
quantity	OrderItem quantity	int(11)	Yes

JSON form: {
 quantity: quantity
 }

PUT response: orderItemID generated by the API during PUT.

Error messages:

Code	Text
9000	Order with OrderID id Does Not Exist
9001	Item with ItemID id Does Not Exist
9002	Failed to add order item to shopping cart
9003	Expected integer “quantity” of items in order as JSON input
9004	OrderItemID for OrderID id and ItemID Does Not Exist
9005	Failed to delete order item from shopping cart