

1. Add a new formula.

POST /formulas

Adds a new formula to the collection of formulas.

Request

Method: POST

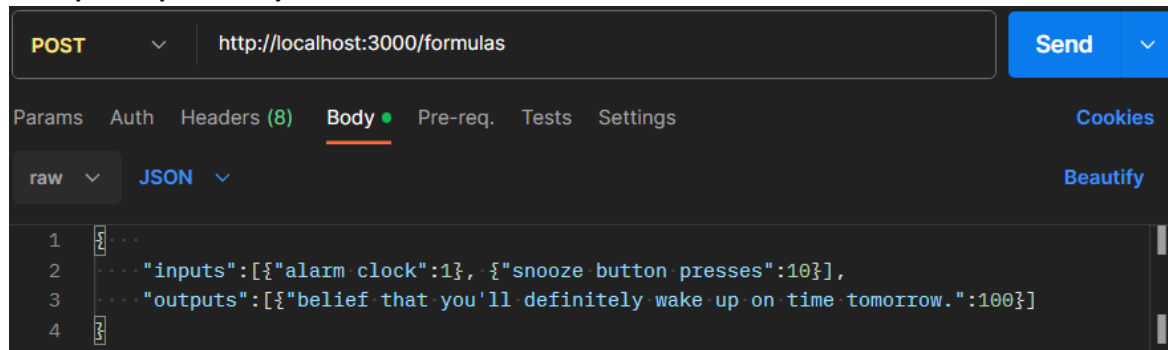
Path: /formulas

Body:

inputs: An array of input objects, each containing the ingredient and its quantity.

outputs: An array of output objects, each containing the product and its quantity.

Example Request Body:



Responses

- **201 Created:** The formula has been successfully created.
- **400 Bad Request:** Invalid request body format.

2. See the inputs and outputs of a specific formula.

GET /formulas/:id

Retrieves the details of a specific formula, including its inputs and outputs in a sentence format.

Request

Method: GET

Path: /formulas/:id

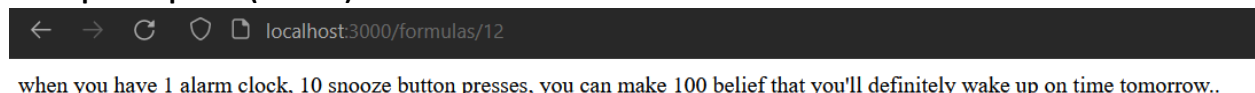
Path Parameter:

id: A non-negative integer representing the formula's unique identifier.

Responses

- **200 OK:** The formula details have been successfully retrieved. The response body contains a sentence describing the formula's inputs and outputs.
- **404 Not Found:** The specified formula does not exist.
- **400 Bad Request:** Invalid formula id.

Example Response (200 OK):



3. List which plans contain a specific formula.

GET /formulas/:id/plans

List which plans contain a specific formula.

Request

Method: GET

Path: /formulas/:id/plans

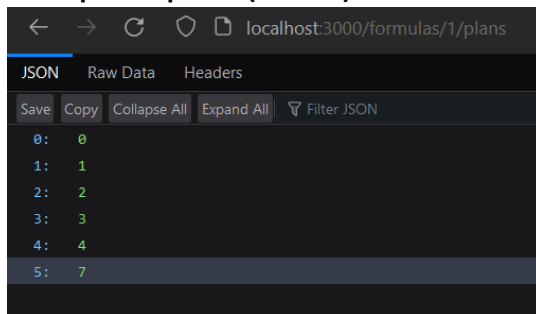
Path Parameter:

id: A non-negative integer representing the formula's unique identifier.

Responses

- **200 OK:** The plan details have been successfully retrieved. The response body contains a Json output of the plans that contains that formula
- **404 Not Found:** The specified formula does not exist.
- **400 Bad Request:** Invalid formula id.

Example Response (200 OK):



4. Add a new Plan.

POST /plans

Adds a new Plan

Request

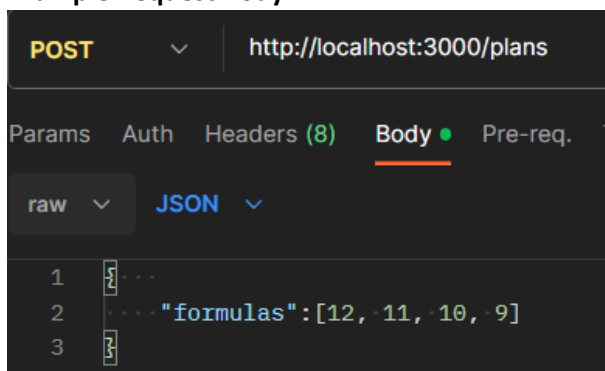
Method: POST

Path: /plans

Body:

inputs: An array of input objects, each containing the list of formulas.

Example Request Body:



Responses

- **201 Created:** The plan has been successfully created.
- **400 Bad Request:** Invalid request body format.

5. Append a formula to the end of a plan.

POST /plans/:id/formulas

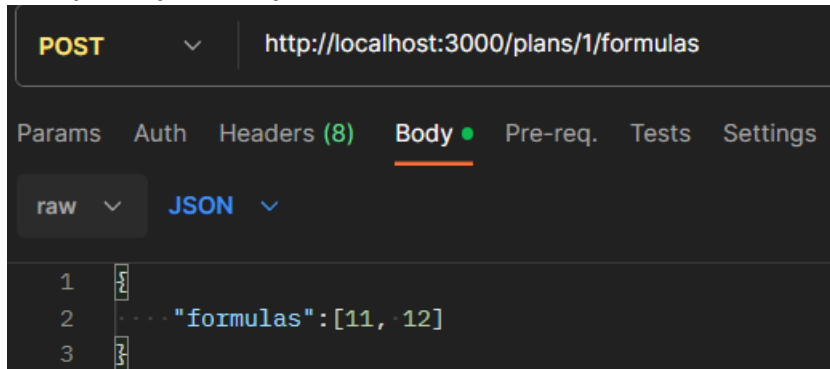
Append a formula to the end of a plan.

Method: POST

Path: /plans/:id/formulas

Body:

inputs: An array of input objects, each containing the Formulas.

Example Request Body:**Responses**

- **201 Created:** The formula has been successfully created.
- **400 Bad Request:** Invalid request body format.
- **404 Not Found:** The specified formula does not exist.

6. Replace formula in a plan with another.

PUT / plans/:id/replace

Replace formula in a plan with another.

Request

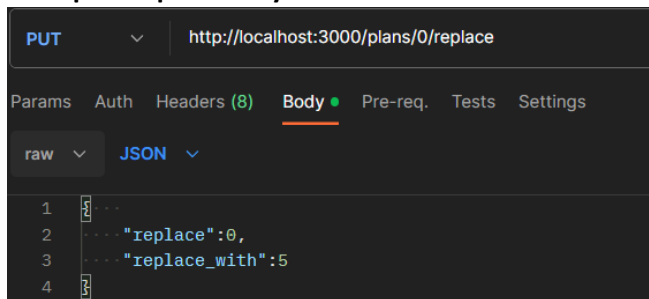
Method: PUT

Path: /plans/:id/replace

Body:

replace: An input object, containing a Formula.

Replace_with: An input object, containing a Formula.

Example Request Body:**Responses**

- **200 Created:** The formula has been successfully created.
- **400 Bad Request:** Invalid request body format.
- **404 Not Found:** The specified formula does not exist.

7. list all formulas in a plan.

GET /plans/:id/formulas

list all formulas in a plan.

Request

Method: GET

Path: /plans/:id/formulas

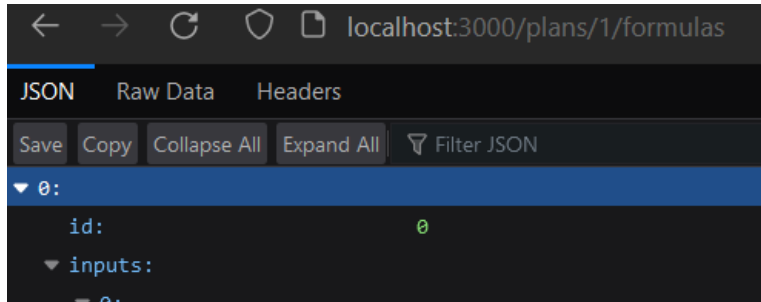
Path Parameter:

id: A non-negative integer representing the formula's unique identifier.

Responses

- **200 OK:** The plan details have been successfully retrieved. The response body contains a Json output of the plans that contains that formula
- **404 Not Found:** The specified formula does not exist.
- **400 Bad Request:** Invalid formula id.

Example Response (200 OK):



8. Delete a specific plan with id

DELETE /plans/:id

Delete a specific plan with id.

Request

Method: DELETE

Path: /plans/:id

Path Parameter:

id: A non-negative integer representing the formula's unique identifier.

Responses

- **200 OK:** The plan details have been successfully deleted.
- **404 Not Found:** The specified formula does not exist.
- **400 Bad Request:** Invalid plan id.

Example Response (200 OK):

