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Project Name: Recipe Sharing API

Purpose: The project aims to provide an API for managing recipes. It allows users to perform CRUD operations (Create, Read, Update, Delete) on recipes.

Features:

- Retrieve all recipes
- Retrieve a specific recipe by using ID or tags
- Add a new recipe
- Update an existing recipe
- Delete a recipe
- Advance search/Filtering option using tags

Dependencies:

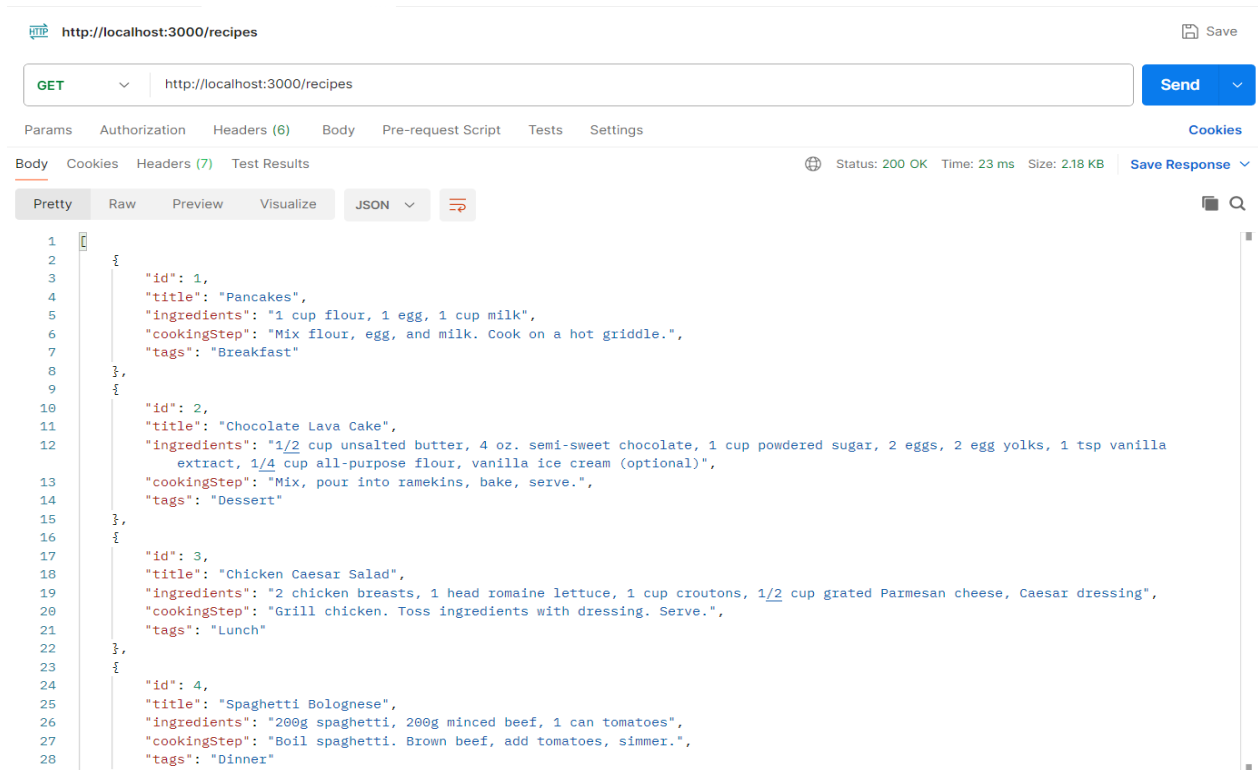
Express.js: ^4.17.1

How to Set it Up Locally:

1. Clone the repository to your local machine.
2. Navigate to the project directory in your terminal.
3. Run npm install to install dependencies.
4. Start the server by running 'npm start' or 'node server.js'.
5. The server will start running on port 3000 by default. If you want to specify a different port, set the PORT environment variable.

Using the API Endpoints:

- GET /recipes: Retrieves all recipes.



http://localhost:3000/recipes

GET http://localhost:3000/recipes

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

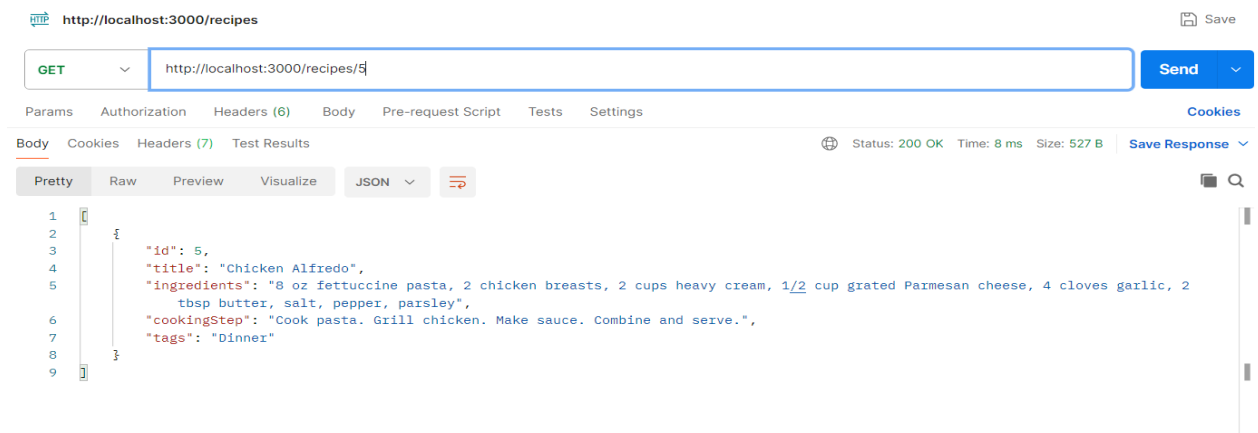
Body Cookies Headers (7) Test Results Status: 200 OK Time: 23 ms Size: 2.18 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 1,
4     "title": "Pancakes",
5     "ingredients": "1 cup flour, 1 egg, 1 cup milk",
6     "cookingStep": "Mix flour, egg, and milk. Cook on a hot griddle.",
7     "tags": "Breakfast"
8   },
9   {
10    "id": 2,
11    "title": "Chocolate Lava Cake",
12    "ingredients": "1/2 cup unsalted butter, 4 oz. semi-sweet chocolate, 1 cup powdered sugar, 2 eggs, 2 egg yolks, 1 tsp vanilla
13    extract, 1/4 cup all-purpose flour, vanilla ice cream (optional)",
14    "cookingStep": "Mix, pour into ramekins, bake, serve.",
15    "tags": "Dessert"
16  },
17  {
18    "id": 3,
19    "title": "Chicken Caesar Salad",
20    "ingredients": "2 chicken breasts, 1 head romaine lettuce, 1 cup croutons, 1/2 cup grated Parmesan cheese, Caesar dressing",
21    "cookingStep": "Grill chicken. Toss ingredients with dressing. Serve.",
22    "tags": "Lunch"
23  },
24  {
25    "id": 4,
26    "title": "Spaghetti Bolognese",
27    "ingredients": "200g spaghetti, 200g minced beef, 1 can tomatoes",
28    "cookingStep": "Boil spaghetti. Brown beef, add tomatoes, simmer.",
29    "tags": "Dinner"
```

- GET /recipes/:query: Retrieves a specific recipe by its ID or tags. Replace ':query' with the ID or tags you want to search for.

Note: Make sure to replace ':id' and ':query' with the appropriate values when making requests to the API endpoints.



http://localhost:3000/recipes

GET http://localhost:3000/recipes/5

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (7) Test Results Status: 200 OK Time: 8 ms Size: 527 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 5,
4     "title": "Chicken Alfredo",
5     "ingredients": "8 oz fettuccine pasta, 2 chicken breasts, 2 cups heavy cream, 1/2 cup grated Parmesan cheese, 4 cloves garlic, 2
6     tbsp butter, salt, pepper, parsley",
7     "cookingStep": "Cook pasta. Grill chicken. Make sauce. Combine and serve.",
8     "tags": "Dinner"
9   }
```

http://localhost:3000/recipes

GET http://localhost:3000/recipes/lunch

Params Authorization Headers (6) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary JSON Beautify

1

Body Cookies Headers (7) Test Results Status: 200 OK Time: 11 ms Size: 752 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "id": 3,
4     "title": "Chicken Caesar Salad",
5     "ingredients": "2 chicken breasts, 1 head romaine lettuce, 1 cup croutons, 1/2 cup grated Parmesan cheese, Caesar dressing",
6     "cookingStep": "Grill chicken. Toss ingredients with dressing. Serve.",
7     "tags": "Lunch"
8   },
9   {
10    "id": 6,
11    "title": "Caprese Salad",
12    "ingredients": "2 large tomatoes, 1 ball fresh mozzarella cheese, 1/4 cup fresh basil leaves, balsamic glaze, extra virgin olive oil, salt, pepper",
13    "cookingStep": "Slice ingredients. Drizzle with glaze and oil. Season.",
14    "tags": "Lunch"
15  }
16 ]
```

If you use an incorrect or invalid end point, they will return this.

PUT http://localhost:3000/recipes [CONFLICT] GET http://localhost:3000/recipes/32

http://localhost:3000/recipes

GET http://localhost:3000/recipes/32

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results Status: 404 Not Found Time: 8 ms Size: 282 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "This recipe does not exist"
3 }
```

http://localhost:3000/recipes

GET http://localhost:3000/recipes/dlunch

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results Status: 404 Not Found Time: 41 ms Size: 282 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "This recipe does not exist"
3 }
```

- **POST /recipes:** Adds a new recipe. Send a POST request with JSON data containing the recipe details ('title', 'ingredients', 'cookingStep', 'tags') in the request body.

HTTP <http://localhost:3000/recipes> Save

POST <http://localhost:3000/recipes> Send

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary **JSON** Beautify

```
1 {
2   "title": "Grilled Salmon with Lemon Butter Sauce",
3   "ingredients": "4 salmon fillets, 1/4 cup unsalted butter, 2 cloves garlic (minced), 1 tablespoon lemon juice, 1 teaspoon lemon zest, salt and pepper to taste, fresh parsley for garnish",
4   "cookingStep": "Season salmon fillets with salt and pepper. Grill until cooked through. In a saucepan, melt butter over medium heat. Add minced garlic and cook until fragrant. Stir in lemon juice and zest. Serve grilled salmon with lemon butter sauce and garnish with fresh parsley.",
5   "tags": "Dinner"
6 }
```

Body Cookies Headers (7) Test Results Status: 201 Created Time: 59 ms Size: 784 B Save Response

Pretty Raw Preview Visualize **JSON** Beautify

```
1 {
2   "id": 9,
3   "title": "Grilled Salmon with Lemon Butter Sauce",
4   "ingredients": "4 salmon fillets, 1/4 cup unsalted butter, 2 cloves garlic (minced), 1 tablespoon lemon juice, 1 teaspoon lemon zest, salt and pepper to taste, fresh parsley for garnish",
5   "cookingStep": "Season salmon fillets with salt and pepper. Grill until cooked through. In a saucepan, melt butter over medium heat. Add minced garlic and cook until fragrant. Stir in lemon juice and zest. Serve grilled salmon with lemon butter sauce and garnish with fresh parsley.",
6   "tags": "Dinner"
7 }
```

The new recipe was successfully added.

HTTP <http://localhost:3000/recipes> Save

GET <http://localhost:3000/recipes/9> Send

Params Authorization Headers (6) **Body** Pre-request Script Tests Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary **JSON** Beautify

```
1 {
```

Body Cookies Headers (7) Test Results Status: 200 OK Time: 7 ms Size: 781 B Save Response

Pretty Raw Preview Visualize **JSON** Beautify

```
1 {
2   "id": 9,
3   "title": "Grilled Salmon with Lemon Butter Sauce",
4   "ingredients": "4 salmon fillets, 1/4 cup unsalted butter, 2 cloves garlic (minced), 1 tablespoon lemon juice, 1 teaspoon lemon zest, salt and pepper to taste, fresh parsley for garnish",
5   "cookingStep": "Season salmon fillets with salt and pepper. Grill until cooked through. In a saucepan, melt butter over medium heat. Add minced garlic and cook until fragrant. Stir in lemon juice and zest. Serve grilled salmon with lemon butter sauce and garnish with fresh parsley.",
6   "tags": "Dinner"
7 }
```

- PUT /recipes/:id: Updates an existing recipe. Send a PUT request to '/recipes/:id' with the ID of the recipe you want to update. Include the updated recipe details in the request body.

The screenshot shows a REST client interface with the following details:

- URL:** `http://localhost:3000/recipes`
- Method:** PUT
- Body:** A JSON object with the following structure:

```
{  "id": 9,  "title": "Grilled Salmon with Lemon Butter Sauce",  "ingredients": "4 salmon fillets, 1/4 cup unsalted butter, 2 cloves garlic (minced), 1 tablespoon lemon juice, 1 teaspoon lemon zest, salt and pepper to taste, fresh parsley for garnish",  "cookingStep": "Season salmon fillets with salt and pepper. Grill until cooked through. In a saucepan, melt butter over medium heat. Add minced garlic and cook until fragrant. Stir in lemon juice and zest. Serve grilled salmon with lemon butter sauce and garnish with fresh parsley.",  "tags": "Lunch"}
```
- Status:** 200 OK
- Time:** 8 ms
- Size:** 778 B

Now the recipe tag has been updated from Dinner to Lunch.

- DELETE /recipes/:id: Deletes an existing recipe. Send a DELETE request to '/recipes/:id' with the ID of the recipe you want to delete.

The screenshot shows a REST client interface with the URL `http://localhost:3000/recipes` and a dropdown menu set to `DELETE`. The request body is empty. The response status is `200 OK` with a time of `14 ms` and a size of `788 B`. The response body is displayed in JSON format, showing a recipe object with the following details:

```
{
  "id": 9,
  "title": "Grilled Salmon with Lemon Butter Sauce Update",
  "ingredients": "4 salmon fillets, 1/4 cup unsalted butter, 2 cloves garlic (minced), 1 tablespoon lemon juice, 1 teaspoon lemon zest, salt and pepper to taste, fresh parsley for garnish",
  "cookingStep": "Season salmon fillets with salt and pepper. Grill until cooked through. In a saucepan, melt butter over medium heat. Add minced garlic and cook until fragrant. Stir in lemon juice and zest. Serve grilled salmon with lemon butter sauce and garnish with fresh parsley.",
  "tags": "Dinner"
}
```

The recipe has been deleted and no longer exists.

The screenshot shows the same REST client interface, but the dropdown menu is now set to `GET`. The response status is `404 Not Found` with a time of `11 ms` and a size of `282 B`. The response body is displayed in JSON format, showing a message:

```
{
  "message": "This recipe does not exist"
}
```