API Documentation

Overview

This API provides basic CRUD (Create, Read, Update, Delete) operations for a collection of products. Products are represented as objects with properties like id, name, and price. The API allows you to perform operations such as retrieving a list of products, getting a specific product by ID, adding a new product, updating an existing product, and deleting a product.

Running the Server Locally

- Make sure you have Node.js installed on your machine.
- Clone the repository containing your API code.
- Open a terminal window and navigate to the project directory.
- Install the required dependencies by running the following command:

  npm install

- Start the server with the following command:
  npm start

The server will be running at http://localhost:3000.

Available Endpoints

1. Get a List of Products
   - Endpoint: GET /products
   - Description: Retrieve a list of all products
   - Example Request
     curl http://localhost:3000/products
   - Example Response:

     [
     { "id": 1, "name": "bat", "price": 12.99 },
     { "id": 2, "name": "ball", "price": 8.49 },
     // … other products
     ]

2. Get a Specific Product by ID
   - Endpoint: GET /products/:id
   - Description: Retrieve details of a specific product based on its ID.
   - Example Request:
     curl http://localhost:3000/products/1
   - Example Response:
     { "id": 1, "name": "bat", "price": 12.99 }

3. Add a New Product
   - Endpoint: POST /products
   - Description: Add a new product to the collection.
   - Example Request:
   - curl -X POST -d "name=New Product&price=24.99" http://localhost:3000/products
   - Example Response:
     { "id": 31, "name": "New Product", "price": 24.99 }

4. Update a Product by ID
   - Endpoint: PUT /products/:id
   - Description: Update an existing product based on its ID.
   - Example Request:
   - curl -X PUT -d "name=Updated Product&price=29.99" http://localhost:3000/products/31
   - Example Response:
     { "id": 31, "name": "Updated Product", "price": 29.99 }

5. Delete a Specific Product
   - Endpoint: DELETE /products/:id
   - Description: Delete a specific product based on its ID.
   - Example Request:
     curl -X DELETE http://localhost:3000/products/31

Example Requests and Responses

Example 1: Retrieve List of Products

Request:
curl http://localhost:3000/products

Response:
[
{ "id": 1, "name": "bat", "price": 12.99 },
{ "id": 2, "name": "ball", "price": 8.49 },
// … other products
]

Example 2: Retrieve a Specific Product

Request:
curl http://localhost:3000/products/1

Response:
{ "id": 1, "name": "bat", "price": 12.99 }

Example 3: Add a New Product

Request:
curl -X POST -d "name=New Product&price=24.99" http://localhost:3000/products

Response:
{ "id": 31, "name": "New Product", "price": 24.99 }

Example 4: Update a Product

Request:
curl -X PUT -d "name=Updated Product&price=29.99" http://localhost:3000/products/31

Response:
{ "id": 31, "name": "Updated Product", "price": 29.99 }

Example 5: Delete a Product

Request:
curl -X DELETE http://localhost:3000/products/31

Response:
{} // Empty response for successful deletion

Workspaces ⌄   More ⌄

GET http://localhost:3(●

No Environment ⌄

Overview

http://localhost:3000/products

Save ⌄

GET ⌄   http://localhost:3000/products   Send ⌄

Params ● Auth Headers (9) Body ● Pre-req. Tests Settings   ○○○

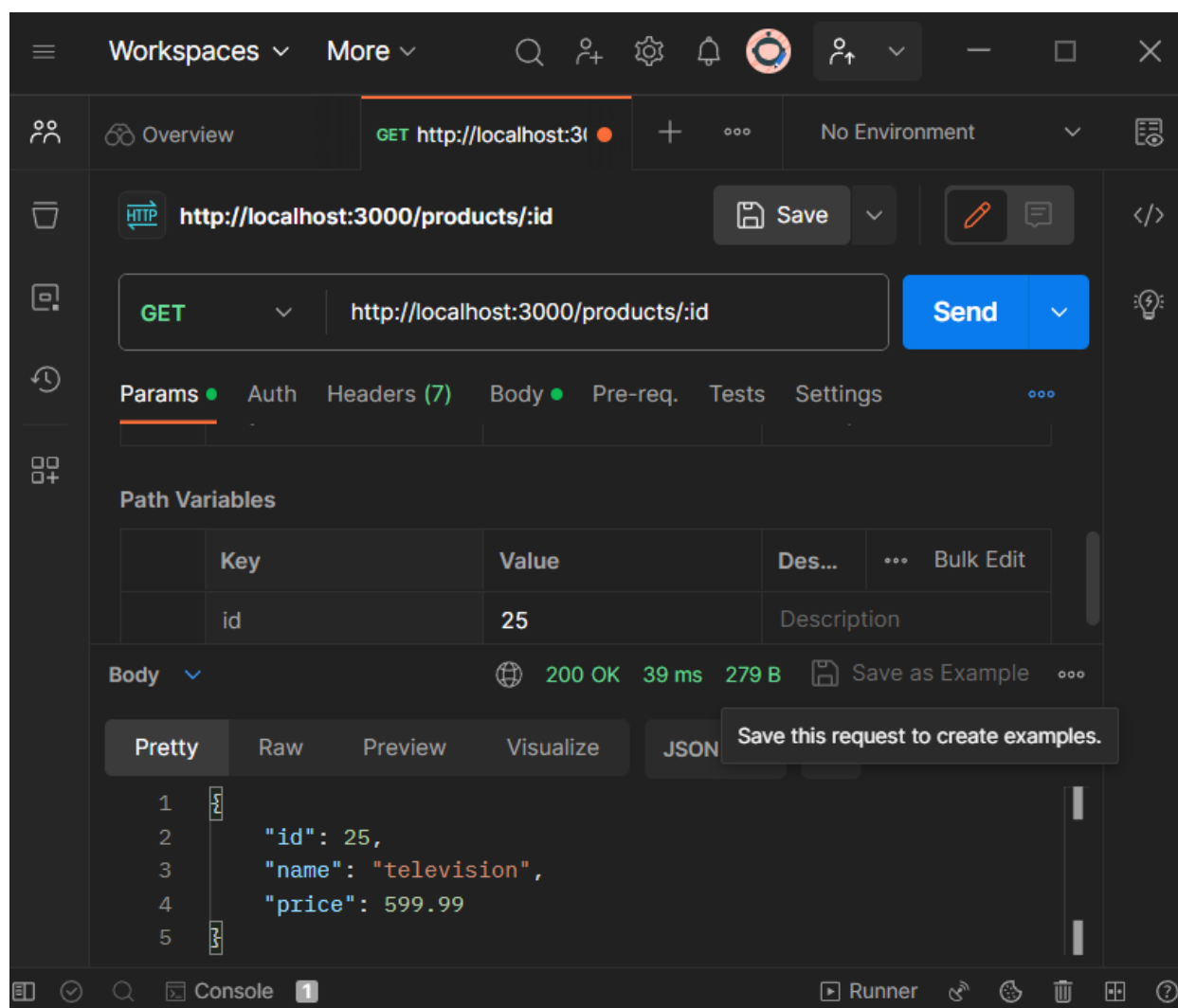|	Key	Value	Des...	○○○ Bulk Edit
☐	id	25		
	Key	Value	Description	

Body ⌄   🌐 200 OK 21 ms 1.42 KB 💾 Save as Example ○○○

Pretty Raw Preview Visualize

[{"id":1,"name":"bat","price":12.99},{"id":2,"name":"ball",
"price":8.49},{"id":3,"name":"Chair","price":49.99},{"id":4,
"name":"pan","price":24.99},{"id":5,"name":"decks","price":39.99},
{"id":6,"name":"fan","price":54.99},{"id":7,"name":"enterprise",
"price":299.99},{"id":8,"name":"shoes","price":29.99},{"id":9,

Console 1   ▶ Runner

Overview   POST http://localhost: +   ○○○   No Environment ∨

HTTP **http://localhost:3000/products**   💾 Save ∨   ✏️ 💬

| POST ∨ | http://localhost:3000/products | Send ∨ |

Params ●   Auth   Headers (9)   **Body** ●   Pre-req.   Tests   Settings   ○○○

x-www-form-urlencoded ∨

| ☑ | name | fan |
| ☑ | price | 69.96 |

Body ∨   🌐 200 OK 35 ms 273 B   💾 Save as Example ○○○

| Pretty | Raw | Preview | Visualize | JSON ∨   ⇄   📋   🔍

```
1  {
2      "id": 31,
3      "name": "fan",
4      "price": "69.96"
5  }
```

Console 1   ▶ Runner

Overview   PUT http://localhost:3 ●   +   ∘∘∘   No Environment ∨

HTTP **http://localhost:3000/products/:id**   💾 Save ∨

| PUT ∨ | http://localhost:3000/products/:id | **Send** ∨ |

Params ●   Auth   Headers (9)   **Body** ●   Pre-req.   Tests   Settings   ∘∘∘

x-www-form-urlencoded ∨

| ☑ | name | Phone | |
| ☑ | price | 96.69 | |

Body ∨   🌐 200 OK   10 ms   275 B   💾 Save as Example ∘∘∘

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥   🗐   🔍

```
1  {
2      "id": 25,
3      "name": "Phone",
4      "price": "96.69"
5  }
```

Console 1   ▶ Runner

Overview   DEL http://localhost:3(●   +   ⋯   No Environment ∨

HTTP **http://localhost:3000/products/:id**   💾 Save ∨   ✏️ 💬

| DELETE ∨ | http://localhost:3000/products/:id | Send ∨ |

Params ●   Auth   Headers (9)   Body ●   Pre-req.   Tests   Settings   ⋯

Path Variables

	Key	Value	Des...	⋯ Bulk Edit
	id	25	Description	

Body ∨   🌐 200 OK 8 ms 229 B 💾 Save as Example ⋯

| Pretty | Raw | Preview | Visualize | Text ∨ |

```
1   OK
```

⊘ Q ⟩_ Console 1   ▶ Runner 🗑️ ❓

Workspaces ∨   More ∨

No Environment ∨

⊘ Overview   DEL http://localhost:3(●   +   ⚬⚬⚬

HTTP **http://localhost:3000/products/:id**   💾 Save ∨   ✏️ 💬

DELETE ∨   http://localhost:3000/products/:id   **Send** ∨

Params ●   Auth   Headers (9)   Body ●   Pre-req.   Tests   Settings   ⚬⚬⚬

Path Variables

	Key	Value	Des...	⚬⚬⚬ Bulk Edit
	id	105	Description	

Body ∨   🌐   404 Not Found   10 ms   310 B   💾 Save as Example   ⚬⚬⚬

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2      "error": "Product with id: 105 not found. No Product were
           deleted."
3  }
```

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