# **E-commerce API Documentation**

Welcome to the documentation for the E-commerce API. This API allows you to manage products and create and view orders for your e-commerce platform. Below, you'll find detailed information on the available endpoints and how to use them.

## **Base URL**

The base URL for all API endpoints is: http://127.0.0.1:8000

## **Endpoints**

### **1. Check if the API is Running**

**Endpoint**: /

**Method**: GET

**Description**: Check if the API is running and returns a simple message.

**Response**:

* Status Code: 200 (OK)
* Response Body: "API is running"

### **2. Get List of Products**

**Endpoint**: /products

**Method**: GET

**Description**: Retrieve a list of available products.

**Response**:

* Status Code: 200 (OK)
* Response Body: List of products in JSON format.

[

{

"id": 1,

"name": "TV",

"price": 500.0,

"quantity": 100

},

...

]

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### **3. Create an Order**

**Endpoint**: /orders

**Method**: POST

**Description**: Create a new order by specifying the items and delivery address.

**Request Body**:

* JSON object with the following structure:

{

"items": [

{

"product\_id": 1,

"bought\_quantity": 2

},

...

],

"address": {

"city": "New York",

"country": "USA",

"zip\_code": "10001"

}

}

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**Response**:

* Status Code: 200 (OK)
* Response Body: Details of the created order in JSON format.

{

"id": 1,

"timestamp": "2023-09-24T12:00:00",

"items": [

{

"product\_id": 1,

"bought\_quantity": 2

},

...

],

"total\_amount": 1000.0,

"address": {

"city": "New York",

"country": "USA",

"zip\_code": "10001"

}

}

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### **4. Get List of Orders**

**Endpoint**: /orders

**Method**: GET

**Description**: Retrieve a list of orders with optional pagination.

**Query Parameters**:

* skip (optional): Number of records to skip (default is 0).
* limit (optional): Maximum number of records to return (default is 10).

**Response**:

* Status Code: 200 (OK)
* Response Body: List of orders in JSON format.

### **5. Get Order by ID**

**Endpoint**: /orders/{order\_id}

**Method**: GET

**Description**: Retrieve details of a specific order by providing its ID.

**Path Parameters**:

* order\_id: ID of the order to retrieve.

**Response**:

* Status Code: 200 (OK)
* Response Body: Details of the order in JSON format.
* Example: (For order\_id: 1)

{

"id": 1,

"timestamp": "2023-09-24T12:00:00",

"items": [

{

"product\_id": 1,

"bought\_quantity": 2

},

...

],

"total\_amount": 1000.0,

"address": {

"city": "New York",

"country": "USA",

"zip\_code": "10001"

}

}

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### **6. Update Product Quantity**

**Endpoint**: /products/{product\_id}

**Method**: PATCH

**Description**: Update the quantity of a specific product.

**Path Parameters**:

* product\_id: ID of the product to update.

**Request Body**:

* JSON object with the following structure:

{

"quantity": 50

}

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**Response**:

* Status Code: 200 (OK)
* Response Body: Updated product details in JSON format.