

# Shopify Product Summary Service - API Documentation

**Base URL** - <http://localhost:3000>

## Overview

The **Shopify Product Summary Service** is a RESTful API built using Node.js that exposes product data from a connected Shopify store. It supports product listing with pagination, fetching individual product details, API statistics, and health checks.

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## 1. Service Info

**GET /**

Returns basic service information and available endpoints.

**Request**

GET /

**Response - 200 OK**

```
{  
  "message": "Shopify Product Summary Service",  
  "endpoints": {  
    "GET /products": "List products (query params: limit, cursor)",  
    "GET /products/:id": "Get single product by ID",  
    "GET /api-stats": "Get API statistics",  
    "GET /health": "Health check"  
  }  
}
```

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## 2. List Products

## GET /products

Fetches a list of products sorted by **title**.

Supports optional **cursor-based pagination**.

### Query Parameters

Parameter	Type	Required	Description
limit	number	No	Number of products to return (default depends on implementation)
cursor	string	No	Pagination cursor for fetching the next page

### Example Request

```
GET /products?limit=10&cursor=<next_cursor_value> or  
/products?cursor=<next_cursor_value>
```

### Response - 200 OK

```
[  
 {  
   "id": "gid://shopify/Product/9435036647654",  
   "title": "\"404 Not Found\" Coffee Mug",  
   "price": 14.99,  
   "inventory": 20,  
   "created_at": "2025-10-06T22:08:07Z"  
 },  
 {  
   "id": "gid://shopify/Product/9435038679270",  
   "title": "\"Hello, World!\" Notebook",  
   "price": 12,  
   "inventory": 100,  
   "created_at": "2025-10-06T22:12:35Z"  
 }  
 ]
```

### Notes

- Products are sorted alphabetically by **title**
- Prices and inventory may be 0 for draft or unavailable products
- If pagination is enabled, the API may return a `next_cursor` value in future iterations

## 3. Get Product by ID

### GET /products/:id

Fetches details of a single product using its Shopify **Global ID (GID)**.

#### Path Parameters

Parameter	Type	Required	Description
id	string	Yes	Shopify Product GID

#### Example Request

```
GET /products/gid://shopify/Product/9577128394982
```

#### Response - 200 OK

```
{
  "id": "gid://shopify/Product/9577128394982",
  "title": "Plush D20 Dice Pillow",
  "price": 0,
  "inventory": 0,
  "created_at": "2025-12-02T16:51:17Z"
}
```

#### Error Responses

Status	Meaning
404	Product not found
500	Internal server error

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## 4. API Statistics

### GET /api-stats

Returns runtime statistics related to API usage and Shopify API performance.

#### Request

```
GET /api-stats
```

### **Response - 200 OK**

```
{  
  "endpoint_response_times_ms": {  
    "average": 426,  
    "max": 426,  
    "min": 426  
  },  
  "total_endpoint_calls": 1,  
  "average_shopify_call_responsetime_ms": 391,  
  "total_shopify_api_calls": 1  
}
```

### **Metrics Explained**

- **endpoint\_response\_times\_ms** - API response timing statistics
  - **total\_endpoint\_calls** - Number of API endpoint calls made
  - **average\_shopify\_call\_responsetime\_ms** - Average response time from Shopify API
  - **total\_shopify\_api\_calls** - Total Shopify API calls executed
- 

## **5. Health Check**

### **GET /health**

Used for service monitoring and uptime checks.

#### **Request**

GET /health

### **Response - 200 OK**

```
{  
  "status": "ok"  
}
```

## **Data Model - Product**

Field	Type	Description
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<code>id</code>	<code>string</code>	Shopify Global Product ID
<code>title</code>	<code>string</code>	Product title
<code>price</code>	<code>number</code>	Product price
<code>inventory</code>	<code>number</code>	Available inventory quantity
<code>created_at</code>	<code>string (ISO 8601)</code>	Product creation timestamp