



# API DOCUMENTATION

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# PROBLEM STATEMENT

- To create a REST API server with the following functionalities:
  - i) Insert, update and select on customers
  - ii) Insert, update and select on products
  - iii) Order history of given customer

# I. GET CUSTOMER DETAILS(SELECT CUSTOMER)

## NORTHWIND API

### Introduction

- GET** Get Customer Details(Select Cstom...
- PUT** Update Customer Data
- POST** Add new Customer
- GET** Get Order history of a customer
- GET** Get Product Details(Select Products)
- POST** Add new Product
- PUT** Update a Product

Using this collection, we can make the following requests: 1.Insert, update and select on customers 2.Insert, update and select on products 3/.Order history of given customer

### GET Get Customer Details(Select Cstomer)

http://localhost:5000/customers/select/:customer\_id

This request url takes customer Id as parameter and returns the customer details.

#### PATH VARIABLES

**customer\_id** BONAP

#### BODY raw

```
{
  "Customer_Details": {
    "Address": "12 rue des Bouchers",
    "City": "Marseille",
    "CompanyName": "Bon app'",
    "ContactName": "Laurence Lebihan",
    "ContactTitle": "Owner",
    "Country": "France",
    "CustomerID": "BONAP",
    "Fax": "91.24.45.41",
```

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#### Example Request

#### Get Customer Details(Select Cstomer)

```
curl --location --request GET 'http://localhost:5000/customers/select/BONAP' \
--data-raw '{
  "Customer_Details": {
    "Address": "12 rue des Bouchers",
    "City": "Marseille",
    "CompanyName": "Bon app'\'',
    "ContactName": "Laurence Lebihan",
    "ContactTitle": "Owner",
    "Country": "France",
    "CustomerID": "BONAP"
```

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# 2.UPDATE CUSTOMER DETAILS

## NORTHWIND API

### Introduction

- GET** Get Customer Details(Select Cstom...
- PUT** Update Customer Data
- POST** Add new Customer
- GET** Get Order history of a customer
- GET** Get Product Details(Select Products)
- POST** Add new Product
- PUT** Update a Product

### PUT Update Customer Data

http://localhost:5000/customers/update/:customer\_id/:field/:new\_data

A single field of a customer can be updated through this request. This request takes the following parameters: (i) customer\_id (ii)field (iii)new\_data

#### PATH VARIABLES

<b>customer_id</b>	BONAP Customer Id
<b>field</b>	Region Field to be updated
<b>new_data</b>	NULL Data to be updated in the field

#### BODY raw

```
{
  "Region update": "success"
}
```

### Example Request

### Update Customer Data

```
curl --location --request PUT 'http://localhost:5000/customers/update/BONAP/Region/NULL' \
--data-raw '{
  "Region update": "success"
}'
```

# 3. INSERT CUSTOMER DATA

## NORTHWIND API

### Introduction

- GET** Get Customer Details(Select Cstom...
- PUT** Update Customer Data
- POST** Add new Customer
- GET** Get Order history of a customer
- GET** Get Product Details(Select Products)
- POST** Add new Product
- PUT** Update a Product

### POST Add new Customer

http://localhost:5000/customers/insert/:customer\_id/:CompanyName/:ContactName/:ContactTitle:/Address/:City/:Region/:PostalCode/:Country/:Phone/:Fax

Through this request, new customer record can added to the northwind database. It takes the following parameters: (i)customer\_id (ii)CompanyName (iii)ContactName (iv)ContactTitle (v)Address (vi)City (vii)Region (viii)PostalCode (ix)Country (x)Phone (xi)Fax

#### PATH VARIABLES

customer_id	AAAA
	ID should Unique
CompanyName	Antonio Moreno TaquerÃa
ContactName	Antonio Moreno
ContactTitle	Owner
Address	Mataderos 2312
City	Mexico
Region	NULL
PostalCode	5023
Country	Mexico

#### Example Request

#### Add new Customer

```
curl --location --request POST 'http://localhost:5000/customers/insert/AAAA/Antonio Moreno Ta
/Antonio Moreno
/Owner
/Mataderos 2312
/Mexico/NULL/5023/Mexico/(5) 555-3402
/NULL' \
--data-raw '{
  "BBBB customer record insertion": "success"
}'
```

# 4.GET CUSTOMER ORDER HISTORY

## NORTHWIND API

### Introduction

- GET** Get Customer Details(Select Cstom...
- PUT** Update Customer Data
- POST** Add new Customer
- GET** Get Order history of a customer
- GET** Get Product Details(Select Products)
- POST** Add new Product
- PUT** Update a Product

### GET Get Order history of a customer

http://localhost:5000/customers/orderhistory/:customer\_id

This request takes customer\_id as a parameter and returns the order history of that customer

#### PATH VARIABLES

customer_id	BONAP
	Customer Id

#### BODY raw

```
{
  "CustomerID": "BONAP",
  "No.of_Orders_in_Total": 17,
  "OrderHistory": [
    {
      "EmployeeID": 9,
      "OrderDate": "Wed, 16 Oct 1996 00:00:00 GMT",
      "OrderID": 10331,
      "RequiredDate": "Wed, 27 Nov 1996 00:00:00 GMT",
      "ShipVia": 1,
```

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### Example Request

### Get Order history of a customer

```
curl --location --request GET 'http://localhost:5000/customers/orderhistory/BONAP' \
--data-raw '{
  "CustomerID": "BONAP",
  "No.of_Orders_in_Total": 17,
  "OrderHistory": [
    {
      "EmployeeID": 9,
      "OrderDate": "Wed, 16 Oct 1996 00:00:00 GMT",
      "OrderID": 10331,
      "RequiredDate": "Wed, 27 Nov 1996 00:00:00 GMT"
```

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# 5.GET PRODUCT DETAILS

## NORTHWIND API

### Introduction

- GET** Get Customer Details(Select Cstom...
- PUT** Update Customer Data
- POST** Add new Customer
- GET** Get Order history of a customer
- GET** Get Product Details(Select Products)
- POST** Add new Product
- PUT** Update a Product

### GET Get Product Details(Select Products)

http://localhost:5000/products/select/:product\_id

This request takes 'product\_id' as parameter and returns the details of the respective product.

#### PATH VARIABLES

**product\_id** 9

#### BODY raw

```
{
  "Product_Details": {
    "CategoryID": 6,
    "Discontinued": "☐",
    "ProductID": 9,
    "ProductName": "Mishi Kobe",
    "QuantityPerUnit": "18 - 500 g pkgs.",
    "ReorderLevel": 0,
    "SupplierID": 4,
    "UnitPrice": 98.7500,
```

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### POST Add new Product

http://localhost:5000/products/insert/:product\_id/:ProductName/:SupplierID/:CategoryID/:Quantity/U

#### Example Request

#### Get Product Details(Select Products)

```
curl --location --request GET 'http://localhost:5000/products/select/9' \
--data-raw '{
  "Product_Details": {
    "CategoryID": 6,
    "Discontinued": "☐",
    "ProductID": 9,
    "ProductName": "Mishi Kobe",
    "QuantityPerUnit": "18 - 500 g pkgs.",
    "ReorderLevel": 0,
    "SupplierID": 4
```

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#### Example Request

#### Add new Product

```
curl --location --request POST 'http://localhost:5000/products/insert/80/White Bread/2/1/250
```

# 6.ADD NEW PRODUCT

## NORTHWIND API

### Introduction

- GET** Get Customer Details(Select Cstom...
- PUT** Update Customer Data
- POST** Add new Customer
- GET** Get Order history of a customer
- GET** Get Product Details(Select Products)
- POST** Add new Product
- PUT** Update a Product

### POST Add new Product

http://localhost:5000/products/insert/:product\_id/:ProductName/:SupplierID/:CategoryID/:Quantity/:UnitPrice/:UnitsInStock/:UnitsOnOrder/:ReorderLevel/:Discontinued

Through this request, a new product record can be added. It takes the following parameters: (i)product\_id (ii)ProductName (iii)SupplierID (iv)CategoryID (v)Quantity (vi)UnitPrice (vii)UnitsInStock (viii)UnitsOnOrder (ix)ReorderLevel (x)Discontinued

#### PATH VARIABLES

product_id	80
ProductName	White Bread
SupplierID	2
CategoryID	1
Quantity	250 mg
UnitPrice	100
UnitsInStock	15
UnitsOnOrder	10
ReorderLevel	20
Discontinued	0

### Example Request

### Add new Product

```
curl --location --request POST 'http://localhost:5000/products/insert/80/White Bread/2/1/250 mg/100/15/10/20/0' --data-raw '{
  "79 product record insertion": "success"
}'
```



# 7.UPDATE A PRODUCT

## NORTHWIND API

### Introduction

- GET** Get Customer Details(Select Cstom...
- PUT** Update Customer Data
- POST** Add new Customer
- GET** Get Order history of a customer
- GET** Get Product Details(Select Products)
- POST** Add new Product
- PUT** Update a Product

### POST Add new Product

```
http://localhost:5000/products/insert/:product_id/:ProductName/:SupplierID/:CategoryID/:Quantity/:UnitPrice/:UnitsInStock/:UnitsOnOrder/:ReorderLevel/:Discontinued
```

Through this request, a new product record can be added. It takes the following parameters: (i)product\_id (ii)ProductName (iii)SupplierID (iv)CategoryID (v)Quantity (vi)UnitPrice (vii)UnitsInStock (viii)UnitsOnOrder (ix)ReorderLevel (x)Discontinued

#### PATH VARIABLES

<b>product_id</b>	80
<b>ProductName</b>	White Bread
<b>SupplierID</b>	2
<b>CategoryID</b>	1
<b>Quantity</b>	250 mg
<b>UnitPrice</b>	100
<b>UnitsInStock</b>	15
<b>UnitsOnOrder</b>	10
<b>ReorderLevel</b>	20
<b>Discontinued</b>	0

#### Example Request

#### Add new Product

```
curl --location --request POST 'http://localhost:5000/products/insert/80/White Bread/2/1/250 mg/100/15/10/20/0' --data-raw '{ "79 product record insertion": "success" }'
```