

# Inventory Management API Document

1. For security, API invocations must be authenticated. So each request will put the authentication info into the request when calling the API service and needs Header (terminalId and token) .
2. use https certificate call and all the requests visit API by Gateway (Port 8084) and then are transferred to relevant microservices.

The screenshot shows a Postman interface for an API request. The URL is `https://localhost:8084/product-service/discount/listDiscountProducts`. The method is GET. The Headers tab is active, showing a list of headers. Two headers, `terminalId` and `token`, are highlighted with a red box. The response is a JSON object.

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Cache-Control	no-cache	
<input checked="" type="checkbox"/> Postman-Token	<calculated when request is sent>	
<input checked="" type="checkbox"/> Host	<calculated when request is sent>	
<input checked="" type="checkbox"/> User-Agent	PostmanRuntime/7.28.4	
<input checked="" type="checkbox"/> Accept	*/*	
<input checked="" type="checkbox"/> Accept-Encoding	gzip, deflate, br	
<input checked="" type="checkbox"/> Connection	keep-alive	
<input checked="" type="checkbox"/> terminalId	101	
<input checked="" type="checkbox"/> token	token101	

Status: 200 OK Time: 640 ms Size: 995 B Save Response

```
1 {
2   "id": 2,
3   "productId": "103",
4   "upc": "SP103",
5   "regularPrice": 5.20,
6   "fromDate": 1629864000000,
7   "toDate": 1632974400000,
8   "discountPercentage": 0.2,
9   "quantityRequirement": 2,
10  "withProductId": null,
11 }
```

## Product APIs:

### 1. List all products:

GET <https://localhost:8084/product-service/product/list>

Parameters:

Header:  
terminalId: 101  
token: token101

Return

```
{
```

```

"code": 200,
"msg": "success",
"data": [
  {
    "id": 1,
    "productName": "product101",
    "productId": 101,
    "upc": "SP101",
    "price": 1.50,
    "inventory": 174,
    "stockAlertThreshold": 10,
    "createTime": "2021-08-24T10:17:19",
    "updateTime": "2021-08-24T10:17:24"
  },
  {
    "id": 2,
    "productName": "product102",
    "productId": 102,
    "upc": "SP102",
    "price": 3.20,
    "inventory": 124,
    "stockAlertThreshold": 10,
    "createTime": "2021-08-23T18:18:03",
    "updateTime": "2021-08-23T18:18:09"
  }
]
}

```

## 2. List all products (Pagination):

GET <https://localhost:8084/product-service/product/listByPage/1/3>

Parameters:

```

Header:
terminalId: 101
token: token101

page: 1
size: 3

```

Return

```

{
  "code": 200,
  "msg": "success",
  "data": {
    "content": [
      {
        "id": 1,
        "productName": "product101",
        "productId": 101,
        "upc": "SP101",
        "price": 1.50,
        "inventory": 174,

```

```

        "stockAlertThreshold": 10,
        "createTime": "2021-08-24T10:17:19",
        "updateTime": "2021-08-24T10:17:24"
    },
    {
        "id": 2,
        "productName": "product102",
        "productId": 102,
        "upc": "SP102",
        "price": 3.20,
        "inventory": 124,
        "stockAlertThreshold": 10,
        "createTime": "2021-08-23T18:18:03",
        "updateTime": "2021-08-23T18:18:09"
    },
    {
        "id": 3,
        "productName": "product103",
        "productId": 103,
        "upc": "SP103",
        "price": 5.20,
        "inventory": 192,
        "stockAlertThreshold": 10,
        "createTime": "2021-08-24T18:18:03",
        "updateTime": "2021-08-24T18:18:09"
    }
],
"size": 3,
"total": 6
}
}

```

### 3. Find a product by its ID:

GET <https://localhost:8084/product-service/product/findByProductId/104>

Parameters:

```

Header:
terminalId: 101
token: token101

product_id: 104

```

Return

```
{
  "id": 4,
  "productName": "product104",
  "productId": 104,
  "upc": "SP104",
  "price": 2.90,
  "inventory": 165,
  "stockAlertThreshold": 10,
  "createTime": "2021-08-25T05:10:39",
  "updateTime": "2021-08-25T05:10:44"
}
```

## 4. Find a product by UPC number:

GET <https://localhost:8084/product-service/product/findByUPC/SP102>

Parameters:

```
Header:
terminalId: 101
token: token101

upc: SP102
```

Return

```
{
  "id": 2,
  "productName": "product102",
  "productId": 102,
  "upc": "SP102",
  "price": 3.20,
  "inventory": 124,
  "stockAlertThreshold": 10,
  "createTime": "2021-08-23T18:18:03",
  "updateTime": "2021-08-23T18:18:09"
}
```

## 5. Edit a product

PUT <https://localhost:8084/product-service/product/update>

Parameters:

```
Header:
terminalId: 101
token: token101

Body:
{
  "id": 2,
  "productName": "product102",
```

```
"productId": 102,  
"upc": "SP102",  
"price": 3.20,  
"inventory": 200  
  
}
```

Return

```
{  
  "code": 200,  
  "msg": "success",  
  "data": {  
    "id": 2,  
    "productName": "product102",  
    "productId": 102,  
    "upc": "SP102",  
    "price": 3.20,  
    "inventory": 200,  
    "stockAlertThreshold": null,  
    "fromDate": null,  
    "toDate": null,  
    "discountPercentage": null,  
    "createTime": null,  
    "updateTime": null  
  }  
}
```

## 6. subtract stock by product id:

PUT <https://localhost:8084/product-service/product/subStock/102/20>

Parameters:

```
Header:  
terminalId: 101  
token: token101  
  
product_id: 102  
quantity: 20
```

Return

```
{  
  "code": 200,  
  "msg": "success",  
  "data": "substock product Id 102, success"  
}
```

## 7. Subtract stock by UPC

PUT <https://localhost:8084/product-service/product/subStockByUpc/SP102/2>

Parameters:

```
Header:
terminalId: 101
token: token101

UPC: 102
quantity: 2
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": "subtract stock UPC SP106, success"
}
```

## 8. Check discount products

GET <https://localhost:8084/product-service/discount/listDiscountProducts>

Parameters:

```
Header:
terminalId: 101
token: token101
```

Return

```
[
  {
    "id": 2,
    "productId": "103",
    "upc": "SP103",
    "regularPrice": 5.20,
    "fromDate": 1629864000000,
    "toDate": 1632974400000,
    "discountPercentage": 0.2,
    "quantityRequirement": 2,
    "withProductId": null,
    "active": 1,
    "createTime": null,
    "updateTime": null,
    "updateBy": "Tony"
  },
  {
    "id": 3,
    "productId": "105",
    "upc": "SP105",
    "regularPrice": 20.10,
```

```

        "fromDate": 1629950400000,
        "toDate": 1632974400000,
        "discountPercentage": 0.2,
        "quantityRequirement": null,
        "withProductId": "106",
        "active": 1,
        "createTime": null,
        "updateTime": null,
        "updateBy": "Tony"
    },
    {
        "id": 4,
        "productId": "104",
        "upc": "SP104",
        "regularPrice": 2.90,
        "fromDate": 1630036800000,
        "toDate": 1632974400000,
        "discountPercentage": 0.3,
        "quantityRequirement": null,
        "withProductId": "102",
        "active": 1,
        "createTime": null,
        "updateTime": null,
        "updateBy": "Tony"
    }
]

```

## 9. Check discount product by productId

GET <https://localhost:8084/product-service/discount/listByProductId/103>

Parameters:

```

Header:
terminalId: 101
token: token101

productId: 103

```

Return

```

{
    "id": 2,
    "productId": "103",
    "upc": "SP103",
    "regularPrice": 5.20,
    "fromDate": 1629864000000,
    "toDate": 1632974400000,
    "discountPercentage": 0.2,
    "quantityRequirement": 2,
    "withProductId": null,
    "active": 1,
    "createTime": null,
    "updateTime": null,
    "updateBy": "Tony"
}

```

## 10. Stock alert list

GET <https://localhost:8084/product-service/stockAlert/list>

Parameters:

```
Header:
terminalId: 101
token: token101
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": 1,
      "alertProduct": "product101",
      "alertProductUpc": "SP101",
      "alertCurrentStock": 9,
      "alertContent": "product inventory lower than the alert Threshold,
UPC is :SP101",
      "createTime": null,
      "updateTime": null
    },
    {
      "id": 2,
      "alertProduct": "product101",
      "alertProductUpc": "SP101",
      "alertCurrentStock": 9,
      "alertContent": "product inventory lower than the alert Threshold,
UPC is :SP101",
      "createTime": null,
      "updateTime": null
    },
    {
      "id": 3,
      "alertProduct": "product101",
      "alertProductUpc": "SP101",
      "alertCurrentStock": 9,
      "alertContent": "product inventory lower than the alert Threshold,
UPC is :SP101",
      "createTime": null,
      "updateTime": null
    },
    {
      "id": 4,
      "alertProduct": "product101",
      "alertProductUpc": "SP101",
      "alertCurrentStock": 9,
      "alertContent": "product inventory lower than the alert Threshold,
UPC is :SP101",
      "createTime": null,
      "updateTime": null
    }
  ]
}
```



```
]
}
```

## 10. Stock alert check from date

GET <https://localhost:8084/product-service/stockAlert/listFromDate/2021-06-01>

Parameters:

```
Header:
terminalId: 101
token: token101

date: 2021-06-01
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": 4,
      "alertProduct": "product101",
      "alertProductUpc": "SP101",
      "alertCurrentStock": 9,
      "alertContent": "product inventory lower than the alert Threshold,
UPC is :SP101",
      "createTime": null,
      "updateTime": null
    },
    {
      "id": 3,
      "alertProduct": "product101",
      "alertProductUpc": "SP101",
      "alertCurrentStock": 9,
      "alertContent": "product inventory lower than the alert Threshold,
UPC is :SP101",
      "createTime": null,
      "updateTime": null
    }
  ]
}
```

## 11. Stock alert check by date

GET <https://localhost:8084/product-service/stockAlert/listByDate/2021-08-28>

Parameters:

```
Header:
terminalId: 101
token: token101

date: 2021-08-28
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": 4,
      "alertProduct": "product101",
      "alertProductUpc": "SP101",
      "alertCurrentStock": 9,
      "alertContent": "product inventory lower than the alert Threshold,
UPC is :SP101",
      "createTime": null,
      "updateTime": null
    }
  ]
}
```

## Cashier APIs:

### 1. List all cashier terminals

GET <https://localhost:8084/cashier-service/cashier/list>

Parameters:

```
Header:
terminalId: 101
token: token101
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": 1,
      "terminalId": 101,
      "token": "token101",
      "createTime": "2021-08-25T17:32:23",
      "updateTime": "2021-08-25T17:32:27"
    },
    {
      "id": 2,
      "terminalId": 102,
      "token": "token102",
      "createTime": "2021-08-25T17:32:29",
      "updateTime": "2021-08-25T17:32:31"
    },
    {
      "id": 3,
      "terminalId": 103,
```

```
        "token": "token103",
        "createTime": "2021-08-25T17:32:34",
        "updateTime": "2021-08-25T17:32:40"
    }
]
```

## 2. Find a cashier terminal by ID

GET <https://localhost:8084/cashier-service/cashier/findById/103>

Parameters:

```
Header:
terminalId: 101
token: token101

terminal_id: 103
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "id": 3,
    "terminalId": 103,
    "token": "token103",
    "createTime": "2021-08-25T17:32:34",
    "updateTime": "2021-08-25T17:32:40"
  }
}
```

## 3. Create a cashier terminal

POST <https://localhost:8084/cashier-service/cashier/create/108/token108>

Parameters:

```
Header:
terminalId: 101
token: token101

terminal_id: 108
token: token108
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": "create cashier successfully"
}
```

id	terminal_id	token	create_time	update_time
1	101	token101	2021-08-25 17:32	2021-08-25 17:32:2
2	102	token102	2021-08-25 17:32	2021-08-25 17:32:3
3	103	token103	2021-08-25 17:32	2021-08-25 17:32:4
4	104	token104	(Null)	(Null)
5	105	token105	(Null)	(Null)
6	106	token106	(Null)	(Null)
7	107	token107	2021-08-25 17:27	2021-08-25 17:27:4
8	108	token108	2021-08-27 08:45	2021-08-27 08:45:5

## Order APIs:

### 1. List all orders

GET <https://localhost:8084/order-service/orderHead/list>

Parameters:

Header:  
terminalId: 101  
token: token101

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "orderId": "e9c8cecab86d4bfd9c316cb66afe1d4d",
      "customerName": "tony",
      "terminalId": 13,
      "orderAmount": 30.4,
      "orderStatus": "new",
      "paymentMethod": "credit card",
      "payStatus": "pending",
      "createTime": null,
      "updateTime": null
    },
    {
      "orderId": "e5fb7d4c064b1418af607babfe19a790",
      "customerName": "tony",
      "terminalId": 13,
      "orderAmount": 30.4,
      "orderStatus": "new",
      "paymentMethod": "credit card",
      "payStatus": "pending",
      "createTime": null,
      "updateTime": null
    }
  ]
}
```

```
        "updateTime": null
    }
]
}
```

## 2. List all orders with order details

GET <https://localhost:8084/order-service/orderHead/orderListWithOrderDetail>

Parameters:

```
Header:
terminalId: 101
token: token101
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "orderId": "6b50af9223b6472217dadd7f60b25192",
      "customerName": "Michael",
      "terminalId": 101,
      "orderAmount": 243.515,
      "orderStatus": "completed",
      "paymentMethod": "credit card",
      "payStatus": "paid",
      "createTime": null,
      "updateTime": null,
      "orderDetailList": [
        {
          "detailId": "c133e4e7cbbaed4223cf4e38f2b4c473",
          "orderId": "6b50af9223b6472217dadd7f60b25192",
          "productId": 105,
          "productName": "product105",
          "upc": "SP105",
          "price": 20.1,
          "amount": 5,
          "createTime": null,
          "updateTime": null
        }
      ]
    },
    {
      "orderId": "6e88b7bea2fa32d12c8e79e557744a92",
      "customerName": "Michael",
      "terminalId": 101,
      "orderAmount": 243.515,
      "orderStatus": "pending",
      "paymentMethod": "credit card",
      "payStatus": "pending",
      "createTime": null,
      "updateTime": null,
    }
  ]
}
```

```

    "orderDetailList": [
      {
        "detailId": "f4097d9fe79fe2f4be210b45b848a6c1",
        "orderId": "6e88b7bea2fa32d12c8e79e557744a92",
        "productId": 105,
        "productName": "product105",
        "upc": "SP105",
        "price": 20.1,
        "amount": 5,
        "createTime": null,
        "updateTime": null
      },
      {
        "detailId": "eadf02aa0992e2fbb221689fde875966",
        "orderId": "6e88b7bea2fa32d12c8e79e557744a92",
        "productId": 106,
        "productName": "product106",
        "upc": "SP106",
        "price": 11.5,
        "amount": 10,
        "createTime": null,
        "updateTime": null
      }
    ]
  }
}

```

### 3. List all orders (Pagination)

GET <https://localhost:8084/order-service/orderHead/orderListByPage/1/2>

Parameters:

```

Header:
terminalId: 101
token: token101

page: 1
size: 2

```

Return

```

{
  "code": 200,
  "msg": "success",
  "data": {
    "content": [
      {
        "orderId": "8c81e09be5e39158dae3147caaa907b2",
        "customerName": "WANG",
        "terminalId": 14,
        "orderAmount": 243.515,
        "orderStatus": "pending",
        "paymentMethod": "credit card",
        "payStatus": "completed",

```

```

        "createTime": null,
        "updateTime": null
    },
    {
        "orderId": "50d332706c0c3cdcc22b8d2e951d71fb",
        "customerName": "ZHOU",
        "terminalId": 14,
        "orderAmount": 18.08,
        "orderStatus": "new",
        "paymentMethod": "credit card",
        "payStatus": "pending",
        "createTime": null,
        "updateTime": null
    }
],
"total": 7,
"size": 2
}
}

```

## 4. Find all products purchased and quantities of each product in an order

GET <https://localhost:8084/order-service/orderDetail/orderDetailByOrderId/8c81e09be5e39158dae3147caaa907b2>

Parameters:

```

Header:
terminalId: 101
token: token101

order_id: 8c81e09be5e39158dae3147caaa907b2

```

Return

```

{
    "code": 200,
    "msg": "success",
    "data": [
        {
            "detailId": "9808fcd4426b39110c1565a07cdfa26d",
            "orderId": "8c81e09be5e39158dae3147caaa907b2",
            "productId": 105,
            "productName": "product105",
            "upc": "SP105",
            "price": 20.1,
            "amount": 5,
            "createTime": null,
            "updateTime": null
        },
        {
            "detailId": "9cf8a62e0ab535e01f7fc9ed779a9bd9",
            "orderId": "8c81e09be5e39158dae3147caaa907b2",
            "productId": 106,
            "productName": "product106",

```

```
        "upc": "SP106",
        "price": 11.5,
        "amount": 10,
        "createTime": null,
        "updateTime": null
    }
]
}
```

## 5. Add a product to an order by UPC and quantity

PUT <https://localhost:8084/order-service/orderHead/addProductToOrder>

Parameters:

```
Header:
terminalId: 101
token: token101

Body:
{
    "customerName": "WANG",
    "terminalId": 14,
    "orderId": "8c81e09be5e39158dae3147caaa907b2",
    "items": [
        {
            "upc": "SP103",
            "amount": 5
        },
        {
            "upc": "SP104",
            "amount": 10
        }
    ]
}
```

Return

```
{
    "code": 200,
    "msg": "success",
    "data": "add product to order 8c81e09be5e39158dae3147caaa907b2, success"
}
```

## 6. Find an order by ID/Get total price of an order

GET <https://localhost:8084/order-service/orderHead/findByOrderId/50d332706c0c3cdcc22b8d2e951d71fb>

Parameters:



```
Header:
terminalId: 101
token: token101

order_id: 50d332706c0c3cdcc22b8d2e951d71fb
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "orderId": "50d332706c0c3cdcc22b8d2e951d71fb",
    "customerName": "ZHOU",
    "terminalId": 14,
    "orderAmount": 18.08,
    "orderStatus": "new",
    "paymentMethod": "credit card",
    "payStatus": "pending",
    "createTime": null,
    "updateTime": null,
    "orderDetailList": [
      {
        "detailId": "db310054ac86b3af1541e5842b47fbeb",
        "orderId": "50d332706c0c3cdcc22b8d2e951d71fb",
        "productId": 102,
        "productName": "product102",
        "upc": "SP102",
        "price": 3.2,
        "amount": 5,
        "createTime": null,
        "updateTime": null
      }
    ]
  }
}
```

## 7. Create an order

POST <https://localhost:8084/order-service/orderHead/create>

Parameters:

```
Header:
terminalId: 101
token: token101

Body:
{
  "customerName": "Michael",
  "terminalId": 101,

  "orderStatus": "new",
  "paymentMethod": "credit card",
  "payStatus": "",
  "items": [
```

```
{
  "productId": 105,
  "amount": 5
},
{
  "productId": 106,
  "amount": 10
}
]
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "orderId": "6e88b7bea2fa32d12c8e79e557744a92"
  }
}
```

## 8. Close an order when payments are made in full

PUT <https://localhost:8084/order-service/orderHead/updateOrderStatus/6b50af9223b6472217dadd7f60b25192>

Parameters:

```
Header:
terminalId: 101
token: token101

order_id: 6b50af9223b6472217dadd7f60b25192
```

Return

If not paid yet, will response

```
{
  "code": 200,
  "msg": "success",
  "data": "payment not done, please pay the order first"
}
```

If paid in full, will response

```
{
  "code": 200,
  "msg": "success",
  "data": "payments are made in full, close order
6b50af9223b6472217dadd7f60b25192 successfully"
}
```

## 9. sales statistics of past xx days

GET <https://localhost:8084/order-service/orderDetail/salesStatistic/7>

Parameters:

```
Header:
terminalId: 101
token: token101

past_days: 7
```

Return

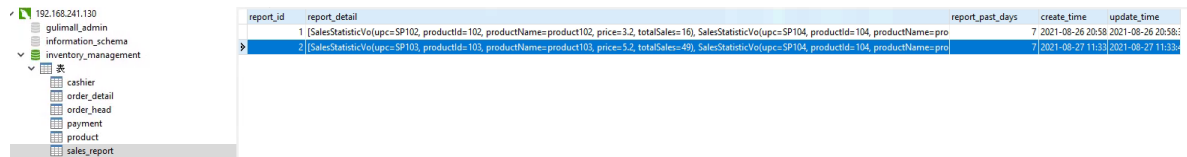
```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "upc": "SP103",
      "productId": 103,
      "productName": "product103",
      "price": 5.2,
      "totalSales": 49
    },
    {
      "upc": "SP104",
      "productId": 104,
      "productName": "product104",
      "price": 2.9,
      "totalSales": 35
    },
    {
      "upc": "SP101",
      "productId": 101,
      "productName": "product101",
      "price": 1.5,
      "totalSales": 30
    },
    {
      "upc": "SP106",
      "productId": 106,
      "productName": "product106",
      "price": 11.5,
      "totalSales": 20
    },
    {
      "upc": "SP102",
      "productId": 102,
      "productName": "product102",
      "price": 3.2,
      "totalSales": 16
    },
    {
      "upc": "SP105",
```

```

        "productId": 105,
        "productName": "product105",
        "price": 20.1,
        "totalSales": 15
    }
]
}

```

And the report will be saved into the sales\_report table in database for further check.



report_id	report_detail	report_past_days	create_time	update_time
1	[SalesStatisticVo(upc=SP102, productId=102, productName=product102, price=3.2, totalSales=16), SalesStatisticVo(upc=SP104, productId=104, productName=pro	7	2021-08-26 20:58	2021-08-26 20:58:
2	[SalesStatisticVo(upc=SP103, productId=103, productName=product103, price=5.2, totalSales=49), SalesStatisticVo(upc=SP104, productId=104, productName=pro	7	2021-08-27 11:33	2021-08-27 11:33:

## 10. Recall check by UPC

GET <https://localhost:8084/order-service/orderHead/recallCheck/SP104>

Parameters:

```

Header:
terminalId: 101
token: token101

upc: SP104

```

Return

```

{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "orderId": "cef40fc5e54045e12337f7d9348bb383",
      "customerName": "tony",
      "terminalId": 13,
      "orderAmount": 51.0,
      "orderStatus": "new",
      "paymentMethod": "credit card",
      "payStatus": "pending",
      "createTime": null,
      "updateTime": null,
      "orderDetailList": [
        {
          "detailId": "df724ac8987f5aa1b8bcf6a3ced45a6d",
          "orderId": "cef40fc5e54045e12337f7d9348bb383",
          "productId": 101,
          "productName": "product101",
          "upc": "SP101",
          "price": 1.5,
          "amount": 5,
          "createTime": null,
          "updateTime": null
        },
        {
          "detailId": "4223184b5db83e2ea9fb4323da95cdd7",

```

```

        "orderId": "cef40fc5e54045e12337f7d9348bb383",
        "productId": 104,
        "productName": "product104",
        "upc": "SP104",
        "price": 2.9,
        "amount": 5,
        "createTime": null,
        "updateTime": null
    },
    {
        "detailId": "1bbf6b2efce6dcd725dd131e2911a08b",
        "orderId": "cef40fc5e54045e12337f7d9348bb383",
        "productId": 104,
        "productName": "product104",
        "upc": "SP104",
        "price": 2.9,
        "amount": 5,
        "createTime": null,
        "updateTime": null
    }
]
},
{
    "orderId": "024b585af40cec2399bb0ae428d8c512",
    "customerName": "YY",
    "terminalId": 14,
    "orderAmount": 22.0,
    "orderStatus": "new",
    "paymentMethod": "credit card",
    "payStatus": "pending",
    "createTime": null,
    "updateTime": null,
    "orderDetailList": [
        {
            "detailId": "d8b3a1f1c2cc1576d5e0c9ba43f21cd2",
            "orderId": "024b585af40cec2399bb0ae428d8c512",
            "productId": 101,
            "productName": "product101",
            "upc": "SP101",
            "price": 1.5,
            "amount": 5,
            "createTime": null,
            "updateTime": null
        },
        {
            "detailId": "cf3389578d6e19f67c79af99a35c04e6",
            "orderId": "024b585af40cec2399bb0ae428d8c512",
            "productId": 104,
            "productName": "product104",
            "upc": "SP104",
            "price": 2.9,
            "amount": 5,
            "createTime": null,
            "updateTime": null
        }
    ]
}
}

```

---

# Payment APIs:

---

## 1. List all payments

GET <https://localhost:8084/order-service/payment/list>

Parameters:

```
Header:
terminalId: 101
token: token101
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": 1,
      "orderId": "8c81e09be5e39158dae3147caaa907b2",
      "orderAmount": 243.515,
      "paymentMethod": "credit card",
      "paymentStatus": "paid",
      "createTime": null,
      "updateTime": null
    },
    {
      "id": 2,
      "orderId": "6b50af9223b6472217dadd7f60b25192",
      "orderAmount": 243.515,
      "paymentMethod": "credit card",
      "paymentStatus": "paid",
      "createTime": null,
      "updateTime": null
    },
    {
      "id": 3,
      "orderId": "6e88b7bea2fa32d12c8e79e557744a92",
      "orderAmount": 243.515,
      "paymentMethod": "credit card",
      "paymentStatus": "pending",
      "createTime": null,
      "updateTime": null
    }
  ]
}
```

## 2. List all payments made for an order

GET <https://localhost:8084/order-service/payment/listByOrderId/6e88b7bea2fa32d12c8e79e557744a92>

Parameters:

```
Header:
terminalId: 101
token: token101

order_id: 6e88b7bea2fa32d12c8e79e557744a92
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": 3,
      "orderId": "6e88b7bea2fa32d12c8e79e557744a92",
      "orderAmount": 243.515,
      "paymentMethod": "credit card",
      "paymentStatus": "pending",
      "createTime": null,
      "updateTime": null
    }
  ]
}
```

## 3. Update payment status to paid by orderId

PUT <https://localhost:8084/order-service/payment/paymentStatusUpdate/6e88b7bea2fa32d12c8e79e557744a92/paid>

Parameters:

```
Header:
terminalId: 101

order_id: 6e88b7bea2fa32d12c8e79e557744a92
status: paid
```

Return

```
{
  "code": 200,
  "msg": "success",
  "data": "payment status updates to paid"
}
```

