

**IST 412**

**Engineering of Complex Software Systems**

**Fall 2018**

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**AWS ERP**

**Team Vinyl**

**Integration Testing**

**AWS API Gateway**

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# Sales Order Module (SOM)

## Post Sale

### Request Body

```
1 {
2   "TableName": "Sales_Order",
3   "Item": {
4     "Customer_ID": "d769cb9a-4e23-49f7
5       -988c-0e8bf11ad9ea",
6     "Date": "10-8-2018",
7     "Payment_Method": "Credit",
8     "Product_Design": [
9       {
10        "Product_Serial_Number":
11          "BLU510",
12        "Quantity": 1
13      },
14      {
15        "Product_Serial_Number":
16          "YEL671",
17        "Quantity": 1
18      }
19    ],
20    "Sales_Order_Number": 801,
21    "Shipping_Information": {
22      "Shipping_Address": "123 Fake St"
```

⚡ Test

```
      "Payment_Method": "Credit",
      "Product_Design": [
        {
          "Product_Serial_Number": "BLU510",
          "Quantity": 1
        },
        {
          "Product_Serial_Number": "YEL671",
          "Quantity": 1
        }
      ],
      "Sales_Order_Number": 801,
      "Shipping_Information": {
        "Shipping_Address": "123 Fake St",
        "Shipping_City": "Philadelphia, PA",
        "Shipping_Country": "US",
        "Shipping_Email": "mrm6068@psu.edu",
        "Shipping_Name": "Ricky Zhao",
        "Shipping_Phone_Number": "6463383108",
        "Shipping_State": "PA",
        "Shipping_Zip_Code": "123"
      },
      "Total": "23.40"
    }
  }
}
```

← Method Execution /SOM - ANY - Method Test



Make a test call to your method with the provided input

### Method

POST ▾

### Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

### Query Strings

{SOM}

TableName=Sales\_Order

### Headers

{SOM}

Request: /SOM?TableName=Sales\_Order

Status: 200

Latency: 351 ms

Response Body

{}

Response Headers

```
{
  "Access-Control-Allow-Origin": "*",
  "X-Amzn-Trace-Id": "Root=1-5c041b1c-9e8b6757c5aaca7eb674865a;Sampled=0",
  "Content-Type": "application/json"
}
```

Logs

Execution log for request 96a2a17f-f65a-11e8-a5c8-5d2228fe6e36

# Delete Sale

## {SOM}

Use a colon (:) to separate header name and value, and new lines to declare multiple headers. eg. Accept:application/json.

## Stage Variables

No [stage variables](#) exist for this method.

## Client Certificate

No client certificates have been generated.

## Request Body

```
1 {  
2   "TableName": "Sales_Order",  
3   "Key": {  
4     "Sales_Order_Number": 801  
5   }  
6 }
```

```
Execution log for request e21f6279-f659-11e8-b493-27b3570cb84a  
Sun Dec 02 17:44:14 UTC 2018 : Starting execution for request:  
e21f6279-f659-11e8-b493-27b3570cb84a  
Sun Dec 02 17:44:14 UTC 2018 : HTTP Method: DELETE, Resource Pa  
th: /SOM  
Sun Dec 02 17:44:14 UTC 2018 : Method request path: {}  
Sun Dec 02 17:44:14 UTC 2018 : Method request query string: {Ta  
bleName=Sales_Order}  
Sun Dec 02 17:44:14 UTC 2018 : Method request headers: {}  
Sun Dec 02 17:44:14 UTC 2018 : Method request body before trans  
formations: {  
  "TableName": "Sales_Order",  
  "Key": {  
    "Sales_Order_Number": 801  
  }  
}  
Sun Dec 02 17:44:14 UTC 2018 : Endpoint request URI: https://la  
mbda.us-east-1.amazonaws.com/2015-03-31/functions/arn:aws:lambd  
a:us-east-1:802749809537:function:SOM/invocations  
Sun Dec 02 17:44:14 UTC 2018 : Endpoint request headers: {x-amz  
n-lambda-integration-tag=e21f6279-f659-11e8-b493-27b3570cb84a,  
Authorization=*****  
*****  
*****}
```

## Method Execution /SOM - ANY - Method Test

Make a test call to your method with the provided input

### Method

DELETE ▾

### Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

### Query Strings

#### {SOM}

TableName=Sales\_Order

### Headers

#### {SOM}

Request: /SOM?TableName=Sales\_Order

Status: 200

Latency: 402 ms

Response Body

{}

Response Headers

```
{"Access-Control-Allow-Origin":"*","X-Amzn-Trace-Id":"Root=1-5c  
0419ee-a46089e026370a05d1d4e953;Sampled=0","Content-Type":"appl  
ication/json"}
```

Logs

Execution log for request e21f6279-f659-11e8-b493-27b3570cb84a

# Update Sale

## Stage Variables

No [stage variables](#) exist for this method.

## Client Certificate

No client certificates have been generated.

## Request Body

```
1 {
2   "TableName": "Sales_Order",
3   "Key": {
4     "Sales_Order_Number": 801
5   },
6   "UpdateExpression": "set Payment_Method
7     = :a, Customer_ID = :b",
8   "ExpressionAttributeValues": {
9     ":a": "PayPal",
10    ":b": "23.42"
11  },
12  "ReturnValues": "UPDATED_NEW"
13 }
```

```
Execution log for request 2c62e12d-f659-11e8-9d8f-39171254e0bf
Sun Dec 02 17:39:09 UTC 2018 : Starting execution for request:
2c62e12d-f659-11e8-9d8f-39171254e0bf
Sun Dec 02 17:39:09 UTC 2018 : HTTP Method: PUT, Resource Path:
/SOM
Sun Dec 02 17:39:09 UTC 2018 : Method request path: {}
Sun Dec 02 17:39:09 UTC 2018 : Method request query string: {Ta
bleName=Sales_Order}
Sun Dec 02 17:39:09 UTC 2018 : Method request headers: {}
Sun Dec 02 17:39:09 UTC 2018 : Method request body before trans
formations: {
  "TableName": "Sales_Order",
  "Key": {
    "Sales_Order_Number": 801
  },
  "UpdateExpression": "set Payment_Method = :a, Customer_ID =
:b",
  "ExpressionAttributeValues": {
    ":a": "PayPal",
    ":b": "23.42"
  },
  "ReturnValues": "UPDATED_NEW"
}
Sun Dec 02 17:39:09 UTC 2018 : Endpoint request URI: https://la
mbda.us-east-1.amazonaws.com/2015-03-31/functions/arn:aws:lambda
```

APIs > SOM-API (citd078vva) > Resources > /SOM (ocejrq) > ANY

Show all hints



Make a test call to your method with the provided input

### Method

PUT

### Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

### Query Strings

{SOM}

TableName=Sales\_Order

### Headers

{SOM}

Use a colon (:) to separate header

Request: /SOM?TableName=Sales\_Order

Status: 200

Latency: 1083 ms

### Response Body

```
{
  "Attributes": {
    "Customer_ID": "23.42",
    "Payment_Method": "PayPal"
  }
}
```

### Response Headers

```
{"Access-Control-Allow-Origin": "*", "X-Amzn-Trace-Id": "Root=1-5c
0418bd-33957e1a80c56dfef278eef7;Sampled=0", "Content-Type": "appl
ication/json"}
```

# Get All Sales



Make a test call to your method with the provided input

Method

GET ▾

Request: /SOM?TableName=Sales\_Order

Status: 200

Latency: 249 ms

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Response Body

Query Strings

**{SOM}**

TableName=Sales\_Order

```
{
  "Items": [
    {
      "Customer_ID": "5334f5d1-8242-40e3-b472-f7c08351613b",
      "Payment_Method": "Credit",
      "Product_Design": [
        {
          "Quantity": 1,
          "Product_Serial_Number": "nullBLU510"
        },
        {
          "Quantity": 1
```

Headers

# Get Single Sale by Key Value

Make a test call to your method with the provided input

Method

GET ▼

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

**{SOM}**

TableName=Sales\_Order&id=801&T

Headers

**{SOM}**

Use a colon (:) to separate header name and value, and new lines to declare multiple headers. eg.

Request: /SOM?  
TableName=Sales\_Order&id=801&Type=getItem  
Status: 200  
Latency: 402 ms  
Response Body

```
{
  "Item": {
    "Customer_ID": "d769cb9a-4e23-49f7-988c-0e8bf11ad9ea",
    "Payment_Method": "Credit",
    "Product_Design": [
      {
        "Quantity": 1,
        "Product_Serial_Number": "BLU510"
      },
      {
        "Quantity": 1,
        "Product_Serial_Number": "YEL671"
      }
    ],
    "Date": "10-8-2018",
```

# Get Sale(s) by Any Attribute

Services ▾ Resource Groups ▾

ISTERP ▾ N. Virginia ▾ Support

API Gateway

APIs > SOM-API (citd078vva) > Resources > /SOM (ocejrq) > ANY

Show all hints

Resources

Actions ▾

100

ser-API

▼ /

▼ /SOM

ANY

OPTIONS

th parameters exist for this

ce. You can define path

eters by using the syntax

athParam} in a resource path.

ry Strings

}

leName=Sales\_Order&id=d769c

lers

}

i colon (:) to separate header

and value, and new lines to

re multiple headers. eg.

Request: /SOM?

TableName=Sales\_Order&id=d769cb9a-4e23-49f7-988c-0e8bf11ad9ea&attribute=Customer\_ID&Type=getByA

Status: 200

Latency: 291 ms

Response Body

```
{
  "Items": [
    {
      "Customer_ID": "d769cb9a-4e23-49f7-988c-0e8bf11ad9ea",
      "Payment_Method": "Credit",
      "Product_Design": [
        {
          "Quantity": 1,
          "Product_Serial_Number": "BLU510"
        },
        {
          "Quantity": 1,
          "Product Serial Number": "YEL671"
        }
      ]
    }
  ]
}
```

om/apigateway/home?region=us-east-1#/apis/citd0...

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# Purchase Order Module (POM)

## Post PO

### Client Certificate

No client certificates have been generated.

### Request Body

```
1 {
2   "TableName": "Purchase_Order",
3   "Item": {
4     "Arrival_Date": "6-3-1",
5     "Date_Issued": "1-1-1",
6     "Material_ID": "1",
7     "Order_Placement_Date": "1-1-1",
8     "Payment_Method": "1",
9     "Purchase_Order_Number": 4,
10    "Purchase_Order_Total": "$1",
11    "Supplier_ID": "4",
12    "Warehouse_ID": "2"
13  }
14 }
```

```
    "Arrival_Date": "6-3-1",
    "Date_Issued": "1-1-1",
    "Material_ID": "1",
    "Order_Placement_Date": "1-1-1",
    "Payment_Method": "1",
    "Purchase_Order_Number": 4,
    "Purchase_Order_Total": "$1",
    "Supplier_ID": "4",
    "Warehouse_ID": "2"
  }
}
Sun Dec 02 19:56:34 UTC 2018 : Endpoint request URI: https://lambda.us-east-1.amazonaws.com/2015-03-31/functions/arn:aws:lambda:us-east-1:802749809537:function:POM/invocations
Sun Dec 02 19:56:34 UTC 2018 : Endpoint request headers: {x-amzn-lambda-integration-tag=5f1e4448-f66c-11e8-8008-8b54022228c4, Authorization=*****
*****
*****
*****
*****4d73ab, X-Amz-Date=20181202T195634Z, x-amzn-apigat
```

Make a test call to your method with the provided input

### Method

POST ▾

### Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

### Query Strings

**{POM}**

param1=value1&param2=value2

### Headers

Request: /POM

Status: 200

Latency: 132 ms

### Response Body

{}

### Response Headers

```
{"Access-Control-Allow-Origin": "*", "X-Amzn-Trace-Id": "Root=1-5c0438f2-7aefab651fb108524e0365ed;Sampled=0", "Content-Type": "application/json"}
```

### Logs



# Delete PO

## Stage Variables

No [stage variables](#) exist for this method.

## Client Certificate

No client certificates have been generated.

## Request Body

```
1 {
2   "TableName": "Purchase_Order",
3   "Key": {
4     "Purchase_Order_Number": 4
5   }
6 }
```

```
TableName=Purchase_Order}
Sun Dec 02 20:07:05 UTC 2018 : Method request
Sun Dec 02 20:07:05 UTC 2018 : Method request
formations: {
  "TableName": "Purchase_Order",
  "Key": {
    "Purchase_Order_Number": 4
  }
}
Sun Dec 02 20:07:05 UTC 2018 : Endpoint request:
mbda.us-east-1.amazonaws.com/2015-03-31/function:
a:us-east-1:802749809537:function:POM/invoke:
Sun Dec 02 20:07:05 UTC 2018 : Endpoint request:
n-lambda-integration-tag=d7197d06-f66d-11e8-9:
Authorization=*****
*****
*****
*****
*****
```

## Method Execution /POM - ANY - Method Test

Make a test call to your method with the provided input

Method

DELETE

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

{POM}

TableName=Purchase\_Order

Request: /POM?TableName=Purchase\_Order

Status: 200

Latency: 135 ms

Response Body

{}

Response Headers

```
{"Access-Control-Allow-Origin": "*", "X-Amzn-Trace-Id": "Root=1-5c043b69-1b91b30c44b8be6a5abeaf17;Sampled=0", "Content-Type": "application/json"}
```

Logs

# Update PO

No client certificates have been generated.

## Request Body

```
1 {
2   "TableName": "Purchase_Order",
3   "Key": {
4     "Purchase_Order_Number": 1
5   },
6   "UpdateExpression": "set Arrival_Date = :a, Date_Issued = :b",
7   "ExpressionAttributeValues": {
8     ":a": "6-6-6",
9     ":b": "6-6-6"
10  },
11  "ReturnValues": "UPDATED_NEW"
12 }
```

```
Sun Dec 02 20:10:10 UTC 2018 : Method request body before transformations: {
  "TableName": "Purchase_Order",
  "Key": {
    "Purchase_Order_Number": 1
  },
  "UpdateExpression": "set Arrival_Date = :a, Date_Issued = :b",
  "ExpressionAttributeValues": {
    ":a": "6-6-6",
    ":b": "6-6-6"
  },
  "ReturnValues": "UPDATED_NEW"
}
Sun Dec 02 20:10:10 UTC 2018 : Endpoint request URI: https://lambda.us-east-1.amazonaws.com/2015-03-31/functions/arn:aws:lambda:us-east-1:802749809537:function:POM/invocations
```

Make a test call to your method with the provided input

## Method

PUT

## Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

## Query Strings

{POM}

TableName=Purchase\_Order

## Headers

{POM}

Request: /POM?TableName=Purchase\_Order

Status: 200

Latency: 94 ms

## Response Body

```
{
  "Attributes": {
    "Arrival_Date": "6-6-6",
    "Date_Issued": "6-6-6"
  }
}
```

## Response Headers

```
{"Access-Control-Allow-Origin": "*", "X-Amzn-Trace-Id": "Root=1-5c043c22-f909778592f7eaec3659c9c6;Sampled=0", "Content-Type": "application/json"}
```

# Get All POs

## Method

GET ▾

## Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

## Query Strings

**{POM}**

TableName=Purchase\_Order

## Headers

**{POM}**

Use a colon (:) to separate header name and value, and new lines to declare multiple headers. eg.  
Accept:application/json.

Request: /POM?TableName=Purchase\_Order

Status: 200

Latency: 314 ms

## Response Body

```
{
  "Items": [
    {
      "Payment_Method": "1",
      "Date_Issued": "1-1-1",
      "Purchase_Order_Total": "$1",
      "Supplier_ID": "2",
      "Material_ID": "1",
      "Order_Placement_Date": "1-1-1",
      "Arrival_Date": "6-3-1",
      "Warehouse_ID": "2",
      "Purchase_Order_Number": 2
    },
    {
      "Payment_Method": "1",
      "Date_Issued": "6-6-6",
      "Purchase_Order_Total": "$1"
    }
  ]
}
```

# Get Single PO by Key

[← Method Execution](#) /POM - ANY - Method Test

Make a test call to your method with the provided input

Method

GET

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

{POM}

TableName=Purchase\_Order&id=28

Headers

{POM}

Request: /POM?

TableName=Purchase\_Order&id=2&Type=getItem

Status: 200

Latency: 63 ms

Response Body

```
{
  "Item": {
    "Payment_Method": "1",
    "Date_Issued": "1-1-1",
    "Purchase_Order_Total": "$1",
    "Supplier_ID": "2",
    "Material_ID": "1",
    "Order_Placement_Date": "1-1-1",
    "Arrival_Date": "6-3-1",
    "Warehouse_ID": "2",
    "Purchase_Order_Number": 2
  }
}
```

# Get PO(s) by any Attribute



Make a test call to your method with the provided input

Method

GET ▾

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

**{POM}**

TableName=Purchase\_Order&id=6-

Headers

**{POM}**

Request: /POM?TableName=Purchase\_Order&id=6-3-1&attribute=Arrival\_Date&Type=getByAttribute

Status: 200

Latency: 156 ms

Response Body

```
{
  "Items": [
    {
      "Payment_Method": "1",
      "Date_Issued": "1-1-1",
      "Purchase_Order_Total": "$1",
      "Supplier_ID": "2",
      "Material_ID": "1",
      "Order_Placement_Date": "1-1-1",
      "Arrival_Date": "6-3-1",
      "Warehouse_ID": "2",
      "Purchase_Order_Number": 2
    }
  ]
}
```

# Inventory Module (IM)

## Post Material

Request Body

```
1 {
2   "TableName": "Material",
3   "Item": {
4     "Material_Components":
5       "5555r",
6     "Material_Count":
7       "555",
8     "Material_Description"
9       : "5555",
10    "Material_ID": "5555",
11    "Material_Level":
12      "Medium",
13    "Product_Serial_Number"
14      ": "CTX714",
15    "Warehouse_ID": "5555"
16  }
17 }
```

Resources

Actions

Method Execution /IM - ANY - Method Test

/

/IM

ANY

Method

POST

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

{IM}

param1=value1&param2=value2

Headers

Request: /IM

Status: 200

Latency: 124 ms

Response Body

{}

Response Headers

{"Access-Control-Allow-Origin": "\*", "X-Amzn-Trace-Id": "Root=1-5c0453ca-afa393c314210fedaf768c87;Sampled=0", "Content-Type": "application/json"}

Logs

Execution log for request 5eb6b5fb-f67c-11e8-8a90-h7999cf83a39

# Delete Material

## Request Body

```
1 {
2   "TableName": "Material",
3   "Key": {
4     "Material_ID": "5555"
5   }
6 }
```

```
}
Sun Dec 02 21:56:21 UTC 2018 : Endpoint request
URI: https://lambda.us-east-1.amazonaws.com/20
15-03-31/functions/arn:aws:lambda:us-east-1:802
749809537:function:IM/invocations
Sun Dec 02 21:56:21 UTC 2018 : Endpoint request
headers: {x-amzn-lambda-integration-tag=1a82ba
ae-f67d-11e8-98ce-4570f9e26b31, Authorization=*
*****
*****}
```

Make a test call to your method with the provided input

### Method

DELETE ▾

Request: /IM?TableName=Material

Status: 200

Latency: 133 ms

### Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

### Response Body

```
{}
```

### Query Strings

{IM}

TableName=Material

### Response Headers

```
{"Access-Control-Allow-Origin":"*", "X-Amzn-Trace-Id": "Root=1-5c045505-a1257e5a7de78a385f45b8a5;Sampled=0", "Content-Type": "application/json"}
```

### Logs

# Update Material

no error messages have been generated.

## Request Body

```
1 {
2   "TableName": "Material",
3   "Key": {
4     "Material_ID": "5555"
5   },
6   "UpdateExpression": "set
7     Material_Description =
8       :a, Material_Level =
9       :b",
10  "ExpressionAttributeValues": {
11    ":a": "test2",
12    ":b": "test2"
13  },
14  "ReturnValues": "UPDATED_NEW"
15 }
```

```
headers: {}
Sun Dec 02 22:00:05 UTC 2018 : Method request body before transformations: {
  "TableName": "Material",
  "Key": {
    "Material_ID": "5555"
  },
  "UpdateExpression": "set Material_Descripti
on = :a, Material_Level = :b",
  "ExpressionAttributeValues": {
    ":a": "test2",
    ":b": "test2"
  },
  "ReturnValues": "UPDATED_NEW"
}
Sun Dec 02 22:00:05 UTC 2018 : Endpoint request
URI: https://lambda.us-east-1.amazonaws.com/20
15-03-31/functions/arn:aws:lambda:us-east-1:802
749809537:function:IM/invocations
```

## Method Execution /IM - ANY - Method Test

Make a test call to your method with the provided input

Method

PUT

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

{IM}

TableName=Material

Headers

Request: /IM?TableName=Material

Status: 200

Latency: 115 ms

Response Body

```
{
  "Attributes": {
    "Material_Description": "test2",
    "Material_Level": "test2"
  }
}
```

Response Headers

```
{"Access-Control-Allow-Origin": "*", "X-Amzn-Trace-Id": "Root=1-5c0455e5-a4dd4c327e27a4ee9d266f4-b3c6b6d0-0", "Content-Type": "application/json"}
```



# Get Material Table

← Method Execution /IM - ANY - Method Test



Make a test call to your method with the provided input

Method

GET

Request: /IM?TableName=Material

Status: 200

Latency: 138 ms

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

{IM}

TableName=Material

Response Body

```
{
  "Items": [
    {
      "Material_Count": "50",
      "Material_ID": "WOOD480",
      "Material_Description": "Wood material used for the Vinyl Product",
      "Material_Components": "Balsa Wood",
      "Product_Serial_Number": "BWOOD764",
      "Material_Level": "Low",
      "Warehouse_ID": "A174"
    },
  ],
}
```

Headers

# Get Single Material by Key

Make a test call to your method with the provided input

Method

GET ▾

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

{IM}

TableName=Material&id=A761&Type=

Headers

{IM}

Request: /IM?

TableName=Material&id=A761&Type=getItem

Status: 200

Latency: 151 ms

Response Body

```
{
  "Item": {
    "Material_Count": "500",
    "Material_ID": "A761",
    "Material_Description": "Fabric material use
d to make the Vinyl Product",
    "Material_Components": "Fabrics",
    "Product_Serial_Number": "AX140",
    "Material_Level": "High",
    "Warehouse_ID": "A174"
  }
}
```

## Get Material(s) by any Attribute

vided input

Request: /IM?  
TableName=Material&attribute=Material\_Level&id=test2&Type=getByAttribute

Status: 200

Latency: 202 ms

Response Body

```
{
  "Items": [
    {
      "Material_Description": "test2",
      "Material_ID": "5555",
      "Material_Level": "test2"
    }
  ],
  "Count": 1,
  "ScannedCount": 6
}
```

Response Headers