1 . Customer Management Service (CMS):

● Description: Manages customer data, including creation, updating, and retrieval

of customer information.

● Service Endpoint: /customers

● Endpoints:

● /create (POST): Create a new customer record.

● /update/{customerId} (PUT): Update an existing customer record.

● /get/{customerId} (GET): Retrieve customer details.

● Calls:

Lead Management Service (LMS) for converting leads to customers.

Request JSON for Customer Creation:

{

"firstName": "John",

"lastName": "Doe",

"email": "john.doe@example.com",

"phone": "123-456-7890",

"address": {

"street": "456 Elm St",

"city": "Anytown",

"state": "CA",

"zipcode": "12345"

},

"notes": "Preferred contact method: Email",

"customFields": {

"birthday": "1980-05-15",

"company": "ABC Inc."

}

}

Response JSON for Customer Creation:

{

"customerId": "CUST123456",

"firstName": "John",

"lastName": "Doe",

"email": "john.doe@example.com",

"phone": "123-456-7890",

"address": {

"street": "456 Elm St",

"city": "Anytown",

"state": "CA",

"zipcode": "12345"

},

"notes": "Preferred contact method: Email",

"customFields": {

"birthday": "1980-05-15",

"company": "ABC Inc."

}

}

2. Lead Management Service (LMS):

● Description: Manages leads, which are potential customers, and their conversion

to customers.

● Service Endpoint: /leads

● Endpoints:

● /create (POST): Create a new lead.

● /convert/{leadId} (PUT): Convert a lead to a customer.

● Calls:

● Customer Management Service (CMS) to create/update customer

records.

Request JSON for Lead Creation:

{

"firstName": "Jane",

"lastName": "Doe",

"email": "jane.doe@example.com",

"phone": "987-654-3210",

"company": "XYZ Corp",

"status": "Open",

"source": "Referral",

"customFields": {

"industry": "Technology",

"leadScore": 75

}

}

Response JSON for Lead Creation:

{

"leadId": "LEAD987654",

"firstName": "Jane",

"lastName": "Doe",

"email": "jane.doe@example.com",

"phone": "987-654-3210",

"company": "XYZ Corp",

"status": "Open",

"source": "Referral",

"customFields": {

"industry": "Technology",

"leadScore": 75

}

}

3. Sales Order Management Service (SOMS):

● Description: Manages sales orders, including creation, updating, and retrieval of

orders.

● Service Endpoint: /orders

● Endpoints:

● /create (POST): Create a new sales order.

● /update/{orderId} (PUT): Update an existing sales order.

● /get/{orderId} (GET): Retrieve order details.

● Calls:

● Customer Management Service (CMS) for customer information retrieval.

Request JSON for Order Creation:

{

"customerId": "CUST123456",

"products": [

{

"productId": "PROD001",

"quantity": 2,

"price": 50.00

},

{

"productId": "PROD002",

"quantity": 1,

"price": 25.00

}

],

"discount": 10.00,

"shippingAddress": {

"street": "123 Maple Ave",

"city": "Sometown",

"state": "NY",

"zipcode": "54321"

},

"notes": "Ship via express delivery"

}

Response JSON for Order Creation:

{

"orderId": "ORDER789012",

"customerId": "CUST123456",

"products": [

{

"productId": "PROD001",

"quantity": 2,

"price": 50.00

},

{

"productId": "PROD002",

"quantity": 1,

"price": 25.00

}

],

"totalAmount": 115.00,

"status": "Pending",

"discount": 10.00,

"shippingAddress": {

"street": "123 Maple Ave",

"city": "Sometown",

"state": "NY",

"zipcode": "54321"

},

"notes": "Ship via express delivery"

}

Finally please add all the microservice best practices that we learn in our session.