You have to create 3 microservicecs

- a) Customer Service
- b) Product Service
- c) Order Service

1) Customer Service:

- You have to implement below operations
 - Add new Customer
 - Update Customer details
 - o Fetch Customer details by customer Id
 - Delete Customer by customer Id (Note: Don't delete customer details from database. You can use flag variable (separate column in db) that indicates customer deleted his account)
 - Fetch all orders placed by Customer
- Create a Customer model class with below properties

customerId: Longname: Stringemail: String

o contact: String

addresses: List<Address>orders: List<Order>

Note: Fetch order details from order service by passing customer id.

- Create CustomerRepository using Spring Data JPA
- You can use RestTemplate / Feign Client / WebClient to call order service.

2) Product Service:

- You have to implement below operations
 - Add new product
 - Update product details
 - Fetch product details by product id
 - Fetch all products based on category
 - Fetch all products
 - Delete product by product id
- Create Product model class with below properties

productId: Longname: Stringcategory: Stringprice: Integer

o details: Map<String, Object>

- Create ProductRepository using Spring Data JPA
- 3) Order Service:
 - You have to implement below operations
 - Add new order
 - Fetch order details by customer id
 - Update order details (status of order) (placed, returned, cancelled, delivered)
 - Fetch order details by order id
 - Create Order model class with below properties

Create OrderRepository using Spring Data JPA

- o orderld: Long
- status: OrderStatus (Create OrderStatus enum with different statuses like placed, returned, cancelled, delivered)
- product: Productquantity: Integer
- amount: Integer (Total order amount = quantity * product price)
- o customerld: Long

Note: Fetch product details from Product Service by passing product id

- You can use RestTemplate / Feign Client / WebClient to call product
- service.

Use keycloak server for authentication and authorization.1) Make sure that customer must be authenticated and authorized first to access his/her account and order details.