3. Identify appropriate Entities, Sub Entities ,abstract classes and interfaces in Order Management System.

***ORDER MANAGEMENT SYSTEM:***

***ENUMS***

1.UserState

- NEW

- ACTIVE

- BLOCKED

- INACTIVE

2.OrderStatus

- ORDERS

-CANCELLED

- SHIPPED

- DELIVERED

3.PaymentType

- UPI

- NETBANKING

- CARD

- POD

***INTERFACES***

1. UserDataDAO

+getUserData()

+updateUserData()

+addUserData()

+deleteUserData()

+modifyUserState(UserState state)

1. InventoryDataDAO()

+getItems()

+updateItems()

+addItems()

+deleteItems()

***ABSTRACT CLASSES***

1. UserServices

+abstract updateProfile()

+abstract updateAccessRights()

+abstract updateShippingDetails()

+abstract updatePaymentMode()

+abstract login()

+abstract signUp()

***CLASSES***

1. User extends UserServices implements UserDataDAO

-userId : String

-userName : String

-password: String

-contactNo : long

-userState : UserState

+updateProfile()

+updateAccessRights()

+updateShippingDetails()

+updatePaymentMode()

+login()

+signUp()

+getUserData()

+updateUserData()

+addUserData()

+deleteUserData()

+modifyUserState(UserState state)

2. Customer extends User

-deliveryAddress : String

-paymentMode : PaymentType

+updateProfile()

+updateShippingDetails(String deliveryAddress)

+updatePaymentMode(PaymentType paymentMode)

+login()

+signUp()

1. Admin extends User

+updateAccessRights()

+updateProfile()

+updateUserData()

+modifyUserState(UserState state)

+deleteUserData()

+addUserData(Customer customer)

+getUserData()

4. Payment

-id : String

-paid : Date

-paymentMode : PaymentType

+getId()

+getDate()

+getPaymentMode()

5. Order

-orderNumber : long

-orderDate : Date

-shippedDate : Date

-status : OrderStatus

-quantity : int

-price : double

+getOrderNumber()

+getOrderDate()

+getShippedDate()

+setShippedDate(Date shippedDate)

+getOrderStatus()

+setOrderStatus(OrderStatus status);

+getQuantity()

+getPrice()

6. Delivery extends Order

-deliveryType : DeliveryMode

+getDeliverytype()

+setDeliverytype(DeliveryMode deliveryType)

+cancelDelivery()

+setOrderStatus(OrderStatus status)

7. Product implements InventoryDataDAO

-productId : String

-productName : String

-supplier : String

-availableQty : int

-costPrice : double

-sellingPrice : double

+getProductId()

+getProductName()

+getSupplier()

+getAvailableQty()

+getCostPrice()

+getSellingPrice()

+setSellingPrice(double price)

+getItems()

+updateItems()

+addItems()

+deleteItems()