

Practical No. 7

AIM: "Yummy cakes" has 10 retail outlets across the city. A customer can choose a cake design from the catalogue available. For cake booking customer's basic information like, name, address, delivery address, phone number and email is recorded. The order details contain the design code, quantity, weight, and date of delivery, and retail outlet code number. All the orders due on the next day of delivery are searched at the manufacturing unit, and the cakes are baked. The order is dispatched to the respective outlets the very next day. Once the cake is delivered, a transaction is recorded. For the above case study,

1. List the classes

i. Customer

- Attributes:
 - name
 - address
 - deliveryAddress
 - phoneNumber
 - email
- Methods:
 - placeOrder()
 - updateDetails()

ii. Order

- Attributes:
 - orderId
 - designCode
 - quantity
 - weight
 - deliveryDate
 - retailOutletCode
 - status
- Methods:
 - trackOrder()
 - updateStatus()

iii. Cake

- Attributes:
 - designCode
 - name
 - basePrice
 - weight
- Methods:
 - calculatePrice()
 - getDetails()

iv. Retail Outlet

Name: Kaustubh Rane
Roll No.: CS23037

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- Attributes:
 - outletCode
 - location
 - inventory
- Methods:
 - receiveOrder()
 - deliverCake()

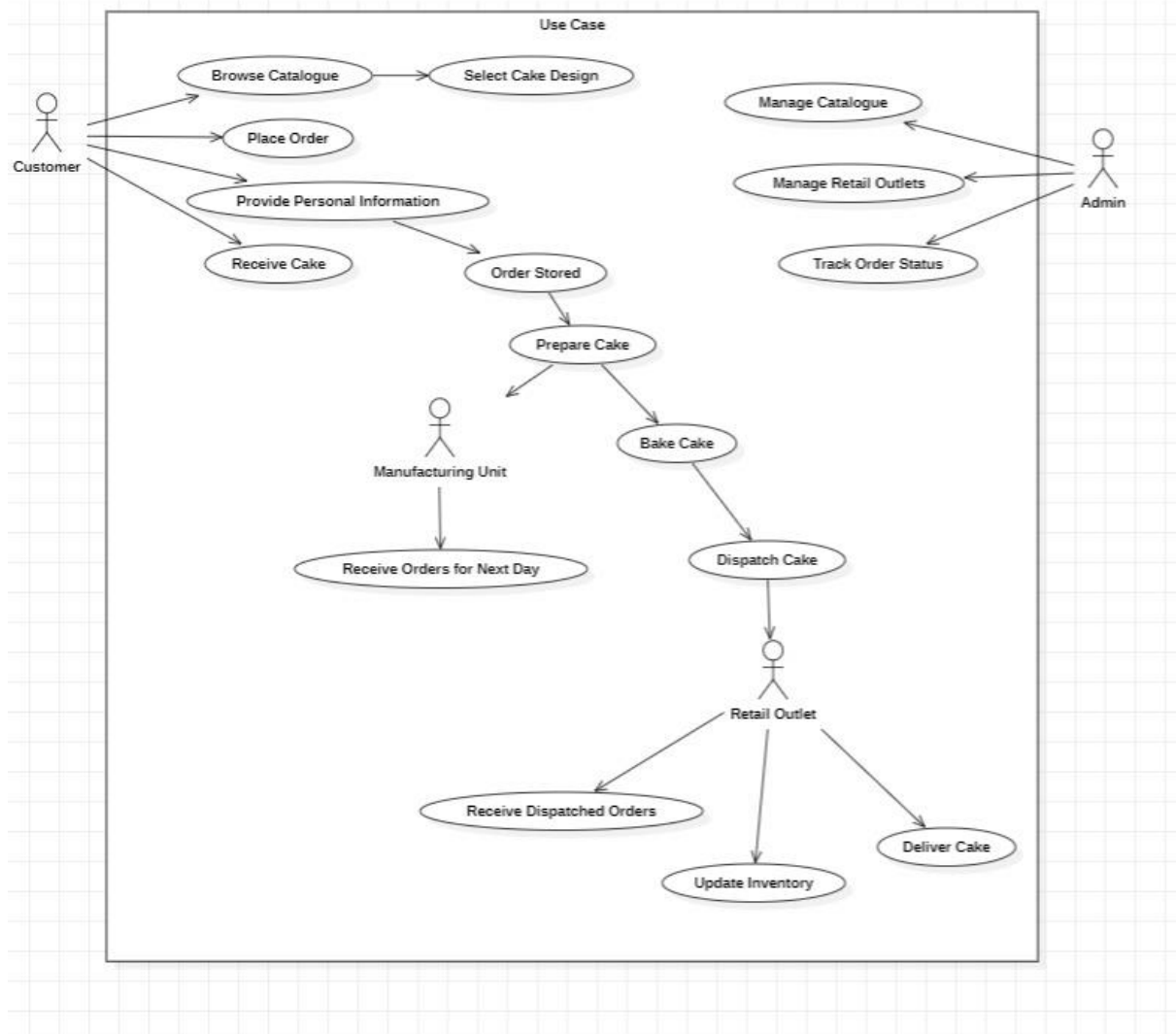
v. Transaction

- Attributes:
 - transactionId
 - orderId
 - amount
 - paymentDate
- Methods:
 - recordTransaction()

vi. Manufacturing Unit

- Attributes:
 - unitId
 - pendingOrders
- Methods:
 - processOrder()
 - dispatchOrder()

2. Use case diagram



3. State transition diagram for any one class

