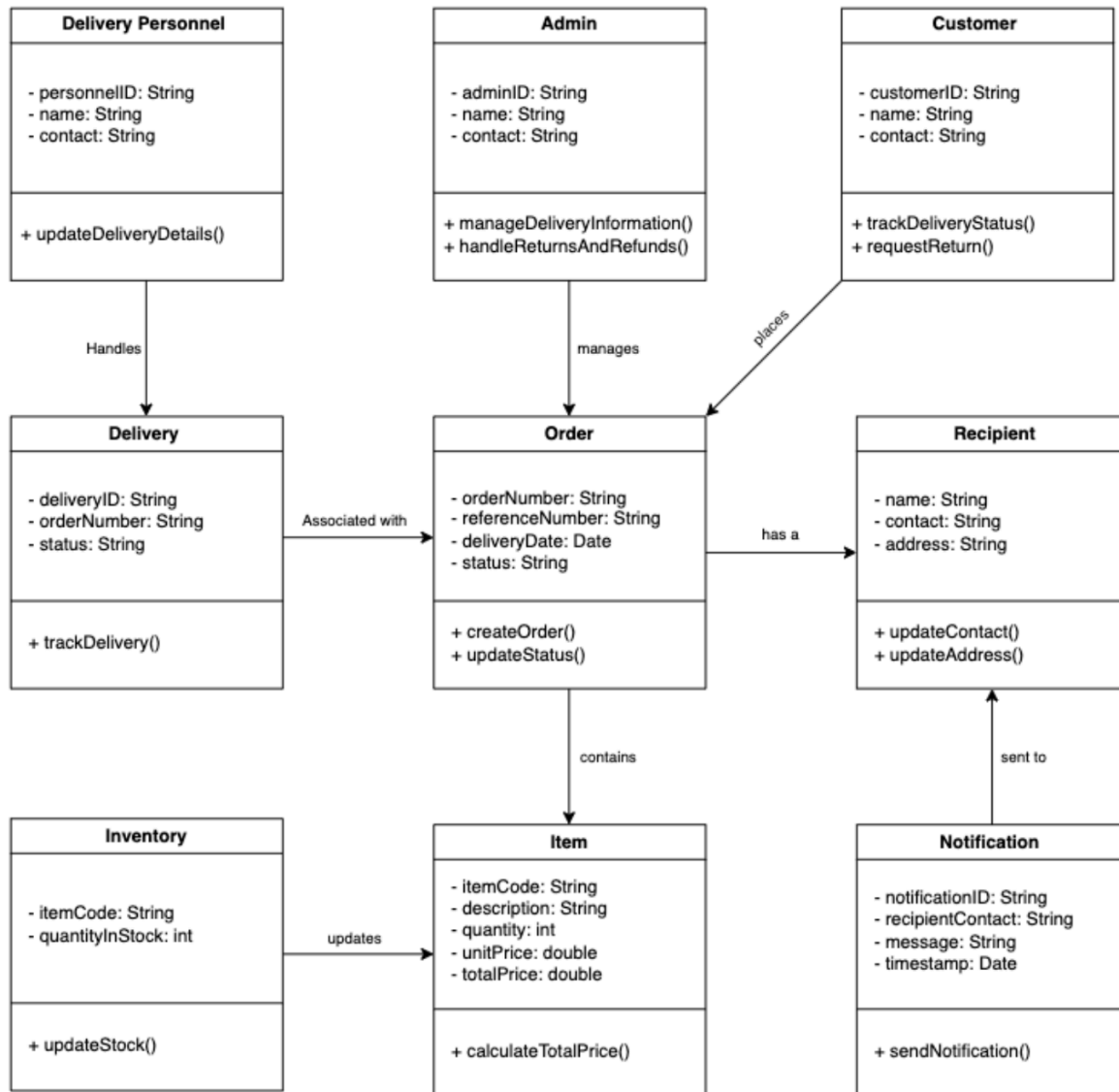


Task 2 Identify Objects and Classes:

B and C) UML class diagram



1. Order

Purpose: Represents a delivery order placed by a customer.

Attributes:

orderNumber: A unique identifier for the order.

referenceNumber: A reference number for tracking purposes.

deliveryDate: The scheduled date for delivery.

status: The current status of the order (e.g., Pending, In Transit, Delivered).

Methods:

createOrder(): Creates a new order in the system.

updateStatus(): Updates the status of the order.

2. Recipient

Purpose: Represents the person receiving the delivery.

Attributes:

name: The name of the recipient.

contact: The contact information of the recipient (email or phone number).

address: The delivery address of the recipient.

Methods:

updateContact(): Updates the recipient's contact information.

updateAddress(): Updates the recipient's delivery address.

3. Item

Purpose: Represents an item included in the delivery order.

Attributes:

itemCode: A unique identifier for the item.

description: A brief description of the item.

quantity: The quantity of the item in the order.

unitPrice: The price of one unit of the item.

totalPrice: The total price of the item (quantity × unit price).

Methods:

calculateTotalPrice(): Calculates the total price of the item.

4. Delivery

Purpose: Represents the delivery details, including status and tracking information.

Attributes:

deliveryID: A unique identifier for the delivery.

orderNumber: The order number associated with the delivery.

status: The current status of the delivery (e.g., Out for Delivery, Delivered).

Methods:

trackDelivery(): Tracks the current status of the delivery.

5. Notification

Purpose: Represents a notification sent to the recipient about the delivery status.

Attributes:

notificationID: A unique identifier for the notification.

recipientContact: The contact information of the recipient (email or phone number).

message: The content of the notification.

timestamp: The date and time when the notification was sent.

Methods:

sendNotification(): Sends a notification to the recipient.

6. Inventory

Purpose: Represents the stock of items available in the system.

Attributes:

itemCode: A unique identifier for the item.

quantityInStock: The current quantity of the item in stock.

Methods:

updateStock(): Updates the stock level of the item.

7. Admin

Purpose: Represents an administrator who manages the delivery system.

Attributes:

adminID: A unique identifier for the admin.

name: The name of the admin.

contact: The contact information of the admin.

Methods:

manageDeliveryInformation(): Allows the admin to update delivery details.

handleReturnsAndRefunds(): Handles return requests and processes refunds.

8. Customer

Purpose: Represents a customer who places delivery orders.

Attributes:

customerID: A unique identifier for the customer.

name: The name of the customer.

contact: The contact information of the customer.

Methods:

trackDeliveryStatus(): Allows the customer to track the status of their delivery.

requestReturn(): Allows the customer to request a return for an order.

9. Delivery Personnel

Purpose: Represents the personnel responsible for delivering orders.

Attributes:

personnelID: A unique identifier for the delivery personnel.

name: The name of the delivery personnel.

contact: The contact information of the delivery personnel.

Methods:

updateDeliveryDetails(): Allows the delivery personnel to update delivery details (e.g., status).