LAB6-SE-202201477:

Task1:

Develop Use Case Textual Description for "Process Sale" and "Handle Return" use cases.

1.Process Sale:

Use Case Name: Process Sale

Actors: Cashier, Customer

Preconditions:

 The cashier is logged into the POS system and the customer arrives at the counter.

Main Flow:

- 1. The cashier initiates a new sale transaction in the POS system.
- 2. The cashier scans the barcode of each good presented by the customer.
- 3. The POS retrieves the product name and price from the product catalog.
- 4. The system displays the item details and updates the total sale amount.
- 5. The cashier continues scanning items until all goods are processed.

- 6.The customer selects a payment method (cash, credit card, check).
- 7. The cashier processes the payment.
- 8. The system confirms payment success or failure.
- 9.Upon successful payment, the system generates and prints a receipt for the customer.
- 10. The system updates the inventory to reflect the items sold.

Postconditions:

- A sale transaction is completed, and a receipt is printed.
- Inventory is updated to reflect the sale.

2. Handle Returns

Use Case Name: Handle Return

Actors: Cashier, Customer

Preconditions:

- The cashier is logged into the POS system.
- The customer is present with the item and receipt for the items being returned.

Main Flow:

- 1. The cashier initiates a return transaction in the POS system.
- 2. The cashier requests the customer to present the receipt for the returned items.

- 3. The cashier scans the barcode of each item being returned.
- 4. The POS verifies the item against the receipt.
- 5. The system displays the item details and refund amount.
- 6. The system processes the refund.
- 7.Upon successful refund, the system updates the inventory to reflect the returned items.
- 8. The system generates and prints a return receipt for the customer.

Postconditions:

- The return transaction is completed, and the customer is issued a refund or store credit.
- Inventory is updated to reflect the returned items.

Task2:

Identify BO/EO/CO:

Entity objects:

- 1.Cashier
- 2.invoice
- 3. Catalog System
- 4. Inventory System
- 5.Item
- 6.Gift coupons

Boundary Objects:

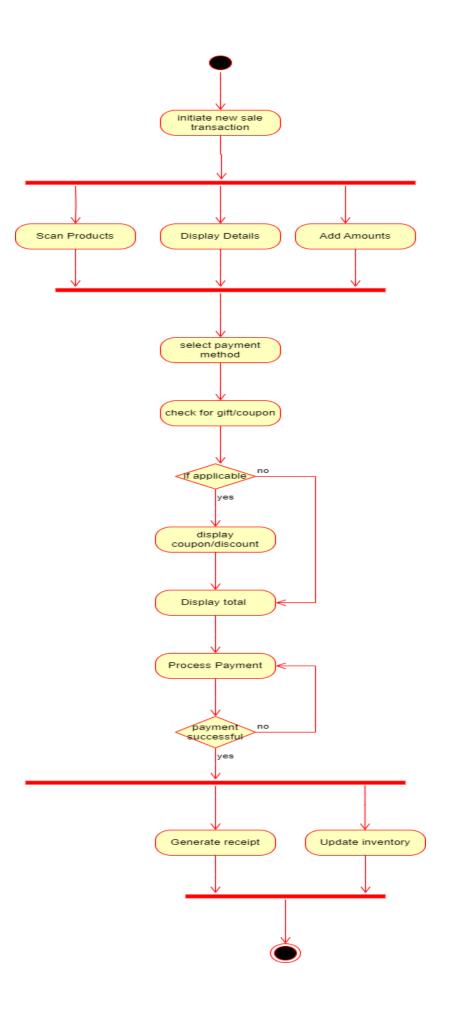
- 1.POS interface
- 2.Barcode scanner
- 3.printer
- 4.computer

Controller Objects:

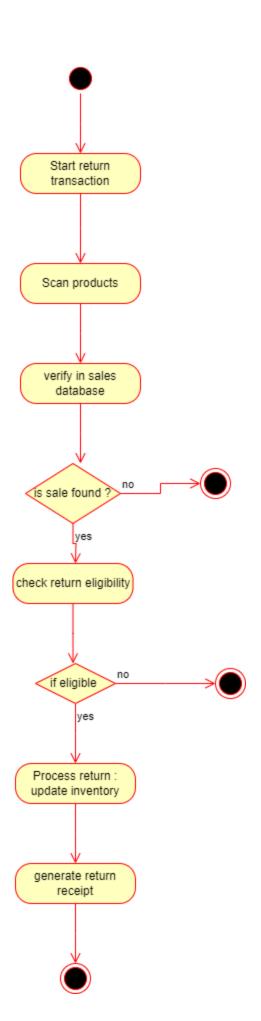
- 1.Transaction System
- 2.User managements System
- 3. Security management System

Task3:Activity Diagram

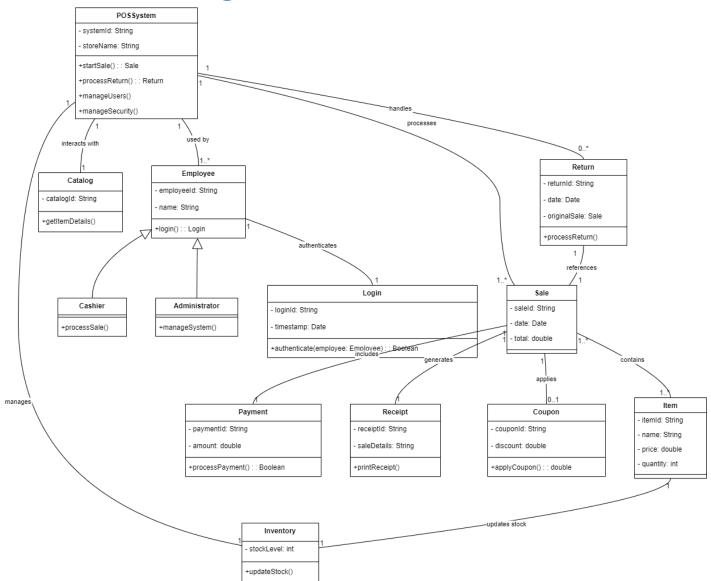
1.Process Sale:



2.	Hand	ı əlb	retur	ns:
----	------	-------	-------	-----



Task 4: Class Diagram



Task 5 : Sequence Diagram:

